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NOVEMBER 1950

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COMMERCIAL CAR

Vol. LXXX Philadelphia, November, 1950 No. 3

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CCJ Reader Digest

At Your Service

Having any trouble lately with spark plug fouling, sticking piston rings, warped blocks, foaming gear lubricant, etc.? Check the service suggestions, page 14, to see what might be tried in the way of new or added maintenance techniques. Various service problems are discussed each month on these pages to help you cut corners or improve operating efficiency.

Bulletin Board

Are your "crack mechanics" good at locating fatigue failures in parts and assemblies *before* they cost you a pile of money in breakdown time? Read the Bulletin Board, Page 23. Then post it on *your own* bulletin board, where each and every maintenance man can look it over. He should get a kick out of it—but he will also get a pretty down-to-earth maintenance message.

Curbs Still in the Offing

Everybody in Washington seems to have his fingers crossed. No definite curbs are under way but the Defense Transportation Administration is laying the groundwork to insure adequate flow of essential materials, replacement parts, fuel, tires and manpower. For full details on these and latest Supreme Court and ICC rulings that affect truck transportation, see Page 37.

Truck Production Slipping

There's a shift on the bets that 1950 truck production might reach 1948's all-time high. Inside dope is that it will fall a little short. Sales, however, continue at a high rate. As for prices, the big boys still are marking time, but heavy discounting is increasing. For full facts on these points and other news from the motor capital, see Page 31.

JOURNAL

with which is combined Operation & Maintenance

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COMMERCIAL CAR JOURNAL is published monthly by Chilton Co., N. W. Cor. Chestnut & 56th Sts., Philadelphia 39, Pa. Subscription price: United States and Possessions, $3.00 per year; all other countries $10.00 per year. Single copies 40¢, except April issue, $1.00. Acceptance under the Act of June 5, 1934, authorized December 18, 1931.

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Here It Is—The Buyers' Directory . . .

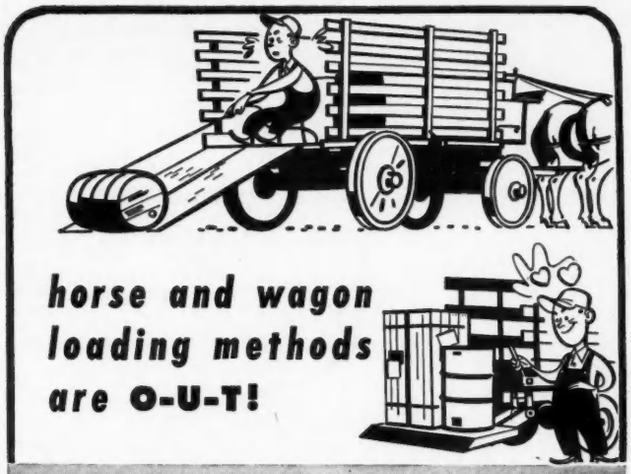
. . . You have been asking for—completely revised and brought up to date so that you can locate suppliers of vehicles, parts, assemblies, accessories, supplies, tools, with a minimum of time and effort. Arranged in alphabetical order under the product designation, this special reference issue is designed to save you headaches in selecting the manufacturer best suited to supply the products you need in the operation and maintenance of your fleet. For some detailed suggestions on how to use it, see page 67.

Association Directory, Too . . .

This year a directory of associations of interest to both truck and bus fleet operators has been added. It even has the names of staff executives you may wish to contact. Begins on page 83.

Suggestion . . .

This issue can be used throughout the year to come. We suggest you put it under lock and key. It is also suggested that you consult the advertisers' index at the back of the issue, for more details about many of the products listed. In fairness to all, no partiality has been shown to advertisers.



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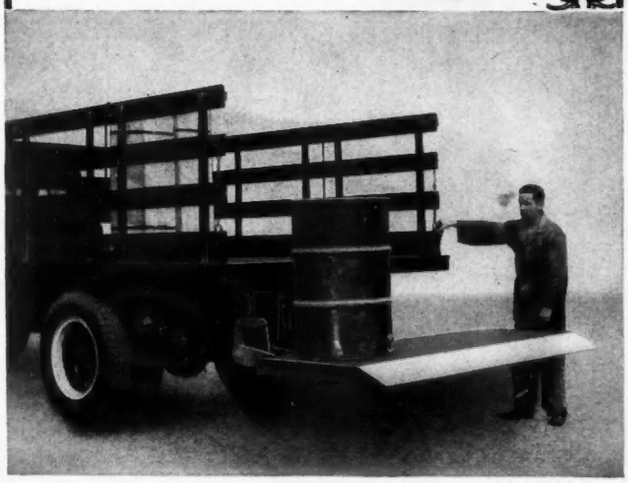

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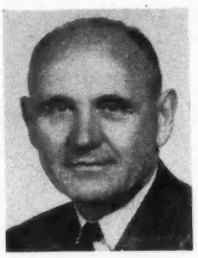

Leland James
ATA's New President

ATA Meet in N.Y. to Report on the Industry

Leland James made president; Knudson promises cooperation; new committee takes shape, Roadeo winners honored; safety awards are distributed at record-breaking 17th Annual Convention in N. Y.

THE Annual Convention of the American Trucking Associations, Inc., returned to New York's Waldorf-Astoria Hotel early in October, after an absence of nine years. A record-breaking turn out of some 2000 delegates from all parts of the country broke bread together, partook of sumptuous entertainment and sat in on some excellent meetings headed by national figures and friends of the trucking industry. Before the week was over they had elected Leland James of Portland, Oregon, president for the coming year and retired Henry English to the Chairmanship of ATA. They had resolved to keep ATA's leading committee active and to recommend participation and membership in the Transportation Association of America in support of TAA's announced objectives for "competitive transportation systems —privately owned and managed." They had witnessed scores of safety awards and some very interesting maneuvers at the National Truck Roadeo held at Kingsbridge Armory in the Bronx

From the standpoint of the man behind the desk, highlights of the session were speeches presented by H. D. Horton, chairman of the Board of Associated Transport, and of ATA; Major General Phillip B. Fleming, Undersecretary of Commerce for Transportation; Major General Frank A. Heileman, the Army's Chief of Transportation; James H. Carmichael, president of Capital Airlines, Robert F. Black, director, Automobile Manufacturers Association, and president of White Motor Co., among others. While the speakers covered a variety of subjects, there was a common theme that could be summarized as follows: the trucking industry has done things over the past 20 years, but it has a lot more up its sleeve in developing efficient, economical, convenient transportation for the greatest amount of customers in the near future.

Overloading Warnings

TWO speakers, had warnings for the industry from the standpoint of overloading and public relations. Major General B. Fleming in an address before the general meeting outlined a study made by the Bureau of Public Roads in regard to the relationship of vehicle length and the difficulty in passing. "There is a widely held belief that long vehicles are much more difficult than short vehicles to pass on overtaking," he said. "Yet comparisons of the time and distance occupancy of the left lane of a highway by an automobile in passing a 25-ft truck, a 45-ft tractor semitrailer combination and a 60-ft truck-trailer combination indicates that there is little actual difference between the hazards of the three in passing maneuvers.

With regard to axle loading, the General had the following recommendations:

1. "The States should enact into law the standards of the American Association of State Highway Officials, set forth in Maximum Dimensions, Weights and Speeds of Motor Vehicles To Be Operated over the Highways of the United States.

2. "No increases should be permitted in present size and weight restrictions pending completion of scientific investigations being made by various State highway departments in cooperation with the United States Bureau of Public Roads.

James K. Knudson, newly-appointed ICC commissioner in charge of defense transportation, promised closer cooperation with NSRB and the ICC from the standpoint of control activity—and said that the same cooperation was expected from all groups. The latest records indicate, he said, that there are 20 million passenger car tires and a proportionate number of truck tires now in inventory—an all-time high. There is a shortage of crude rubber, and we are trying to eliminate that by shipping synthetic rubber to countries outside the USA in exchange for crude. He stated that there was not evidence that spare parts were critical, and that no control as yet is in the cards . . . We are almost certain to

(TURN TO PAGE 340, PLEASE)

this Year's . . .

AUTO-LITE

Safety Award Winners!

"Achieving greater highway safety is an increasing problem to all fleet owners, but the records will prove safety pays well for those who have campaigned for it. I wish to extend my heartiest congratulations to the winners of Auto-Lite Personal Safety Awards and to all who entered our A.T.A. Safety Contest on the splendid job they have done."

The Electric Auto-Lite Company wishes to add its congratulations to those of Mr. Leland James, president of the American Trucking Associations, Inc., and to remind all fleet operators that the A.T.A. 1950-51 Truck Safety Contest is now open to every fleet . . . big or small . . . with no membership in the Associations required. You can get full details regarding enrollment by writing to the American Trucking Associations or

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Make Sure Your Fleet is Represented in 1950-51 Contest

Help promote safety in your fleet—stimulate interest with the A.T.A. Truck Safety Contest. Sixteen classes—both local and long distance—give every fleet a chance to win. Write the American Trucking Associations, Inc., your State Trucking Association office or the Electric Auto-Lite Company, Merchandising Division, Toledo 1, Ohio, for full information.

SPARK PLUGS

Ignition Engineered

Economical, Efficient Transport Theme of T & M Meeting in N.Y.

Axle weights discussed, noise control methods explained, relationship of PM to accidents reviewed; accessibility criticized; history-making paper on fuels and lubricants is presented at Transportation & Maintenance section meeting

A CROWD of approximately 300 engineers and fleet operators from Portland to Tampa settled down over New York, October 16, 17, 18, to attend the Transportation and Maintenance meeting of the Society of Engineers. The "take home pay" ran to exceedingly high proportions, as Ted Preble, of Tidewater Associated Oil Co. and chairman of the session, expressed it. Attendance records at each of the eight sessions would indicate the success of this three-day conference.

Opening the meeting on Monday, Herbert S. Fairbank, of the Bureau of Public Roads, dived into a sizzling subject with his paper on "Why 18,000 lb?" Limitation of commercial motor vehicles to 18,000 lb axle-loads is necessary to protect our highways which have been standardized in strength to the endurance limits of 9-in. concrete, he said. The 18,000 lb load is not an arbitrary figure drawn from the hat, but a figure arrived at through comprehensive road tests as the endurance limit for 9-in. pavements. He was especially critical of the expanding use of secondary roads by heavy trucks for transporting such items as fuel, milk, coal, lumber and construction materials, since these roads are not built for heavy-duty traffic conditions. New and heavier roads can be built, Mr. Fairbank continued, but at heavy cost, and no economic justification has been proved from the standpoint of future needs. In fact the speaker suggested that it was questionable whether axle loading must be increased to provide the economies demanded by fleetmen.

A. B. Gorman, of Standard Oil Co., in a prepared discussion took issue with the speaker. He showed slides of roads throughout the country (off limits to trucks) that had deteriorated after only a few years use, intimating that substructure, the grading, or the concrete itself was defective and that commercial vehicles had been blamed in the past for damage that they couldn't have caused. He emphasized that milk, fuel and farm products are hauled over secondary roads in light vehicles for a number of reasons.

Since the concrete itself is but a small fraction of the cost of building a road, Gorman suggested that it might be economically feasible to add an extra inch in thickness to assure longer lasting surfaces. He noted that some of the older roads are apparently standing up better than the newer jobs and wondered if the fact that greater proportions of sand now used produce a weaker structure than the heavier rock used in the mixture previously. In this respect, he said, the modulus of rupture of the material in the slab might well be upped from the present established specification in a move to attain stronger concrete. Thus by increasing the modulus of rupture it would not be necessary to thicken the slab.

Other speakers criticized the present trend in policies as hamstringing the transportation industry by arbitrarily establishing a top limit for specifications for roads of the future. This is negative thinking, several said, and will not provide the incentive to develop the truck tranportation industry to the degree attained in other American industries or to the point where it can provide the greatest service and economies to the people.

Muffler Noises Discussed

IN the afternoon the engineers turned to road noises, particularly muffler noises, with Paul Huber, of Fram Corp. presenting a preliminary report of the SAE Motorcoach and Motor Truck Subcommittee on Noise. He discussed the committee's procedure for testing noise along certain highways, some of the problems accompanying the use of the three-

(TURN TO PAGE 342, PLEASE)

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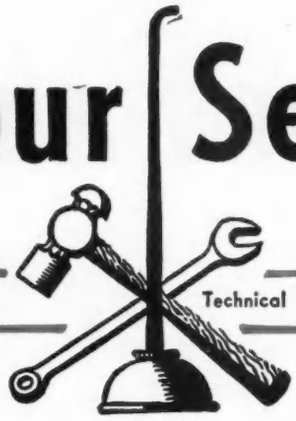

By M. K. SIMKINS

Technical Editor, Commercial Car Journal

Propane for Buses

Another Eastern transportation system is eyeing LP gas operation, hoping to find a way to cut fuel costs and at the same time to insure an adequate supply of fuel in the event of another shortage of gasoline. This company has equipped two of its smaller buses with propane converted engines and is surveying performance with an eagle eye. It is too early to draw conclusions with regard to maintenance savings, but early indications point to the fact that fuel cost savings will be appreciable.

This company, with approximately 800 vehicles, operates 82,000 miles per month and uses about 22,000 gallons of gasoline. In one year mileages range in the 27 to 29 million figures, with 8 to 9 million gallons of gas being consumed. Thus a saving of even one cent a gallon would result in an overall saving of approximately $70,000. They are paying 11.8 cents a gallon for gasoline, while the present cost of propane is 9 cents. While this is somewhat higher than normal, it is stated that shipping and storage costs have kept the price above what it will be when they are set up to use it in quantity.

Watch This CO Stuff

Carbon monoxide is a colorless, odorless, tasteless gas, the product of incomplete combustion. It is found in some degree in all smoke and fumes. So let's assume it is present in every fleet shop. In low concentrations these fumes can be absorbed without obvious harm to the individual. After continual exposure, however, headaches occur, and finally unconsciousness. Eventually death results.

A concentration of only .02 per cent may produce headaches, mental dullness and physical logginess, in a few hours' time. A concentration of .06 per cent will produce headaches in less than an hour, while .10 per cent can prove fatal.

Next time your men complain of headaches, nausea or sluggishness, don't accuse them of inefficiency until you check for the presence of this gas. Even if you have ventilating systems, CO may gather in low sections, in pits, or in confined areas. There are several instruments on the market that can be used to check for the gas when concentrations are suspected. Other systems can be employed to sound an alarm or to operate ventilating equipment when fumes become dangerous. Mine Safety Appliances Co. of Pitsburgh, for example, has several types of instruments for CO detection. Whether you have such equipment or whether you rely on caution and ventilation, keep in mind the direct and indirect dangers of CO gas. Be sure such accidents don't happen in your shop.

Choosing Spark Plugs

Manufacturers, of course, provide recommendations with regard to type and heat range of spark plugs for particular engines, but this presupposes the engines are new and in good condition. An old engine, particularly before it has been overhauled, however, may have low compression with resultant lower operating temperatures. In old engines, where spark plug fouling is experienced, a hotter plug should be tried. Again, with winter operation, especially in start-stop delivery service, there is a good chance that a hotter plug than recommended should be used. Don't replace spark plugs without checking into their causes of failure. When the appearance of the tip and the insulators indicates either fouling or burning, change to a hotter (or a colder) plug.

When Using Auxiliary Fuel Pump

A recent shop hint suggested the use of an auxiliary electric pump installed in conjunction with the regular vacuum fuel pump as a move toward eliminating costly road breakdowns. Reader Frank Drew, of Standard Laundry Co., Jersey City, states that "you are taking a chance of booby-trapping your engine when you connect an electric pump in series with a mechanical pump, as fuel pumped by the electric pump will find its way through a ruptured diaphragm and fill the crankcase with a mixture of gas and oil." Therefore, he recommends a *parallel* hook-up of the pump. Thank you, reader Drew.

Sediments and Screenings

F-1 wobble sticks are out. Ford reports that steering column gear shifts have been made standard equipment on all Ford F-1 trucks.

Plymouth has developed an improved brake shoe in a move to cut brake noise. The new shoe has six holes stamped on the table of the shoe at the toe end. Model P-19 and P-20 cars are using them now.

Studebaker now offers Roto-Caps in an installation kit for the M and 2R series trucks equipped with the Commander type engine. The Roto-Cap replaces the standard spring retainer washer. Shorter valve springs necessary with the change come in the kit. Chrome plated top piston rings also are now available for these engines according to Studebaker.

Try cleaning hydraulic valve lifters first. Chevrolet reports that at least 85 per cent of all hydraulic valve lifters returned to the factory were simply dirty. Replacement, it is stated, is necessary only in cases where the lifter parts are damaged. Noisy operation is often caused by a layer of varnish or carbon, and if these parts are cleaned properly, they will operate satisfactorily upon installation.

TRAILMOBILE Wins 5TH Straight "FIRST" in A.T.A. ROADEO!

First Place

John Waldon

Foster Freight Lines

Indianapolis, Ind.

HEARTIEST congratulations to John Waldon of the Foster Freight Lines, Indianapolis, Indiana, who pulled a TRAILMOBILE to first place at the 1950 National Truck Roadeo with an impressive 349.379 points out of a possible 400.

Champion on the Highway, too!

Less spectacular than Roadeo victories, but no less significant are the actual performance records of TRAILMOBILE owners everywhere. They prove that the same "easy pull" which wins Roadeos also facilitates maneuvering in close quarters—makes it easier for drivers to stick to tight schedules and maintain unblemished safety records at the same time.

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What's more, every TRAILMOBILE is engineered to deliver more years of service—as well as more days of profit-earning service per year; less time in the shop—more time on the highway. And don't forget—customers report they can haul considerably more payload per trip in the sensational new lightweight TRAILMOBILE!

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1950

FIRST PLACE: John Waldon, Foster Freight Lines, Indianapolis, Indiana. Score: 349.379 points out of a possible 400. Trailer Model TA-66 TRAILMOBILE.

1949

FIRST PLACE: Ben Winterberger, Dohrn Transfer Co., St. Louis, Mo. Score: 368.375 points out of a possible 400. Trailer—Model TA TRAILMOBILE.

1948

FIRST PLACE: Grayson C. Thomas, Associated Transport Co., Burlington, N. C. Score: 342.7 out of a possible 400. Trailer—Model TA TRAILMOBILE.

1947

FIRST PLACE: C. W. Zimmerman, Cushman Motor Delivery Company, Chicago, Ill. Score: 380.5 out of a possible 400. Trailer—Model LP TRAILMOBILE.

1946

FIRST PLACE: C. W. Zimmerman, Cushman Motor Delivery Company, Chicago, Ill. Score: 509.12. Trailer—Model LP TRAILMOBILE.

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The OVERLOAD

E D I T O R I A L C O M M E N T

Who's Got the Right Axle Load?

WHETHER we like it or not, the most talked-about phrase in the trucking industry today is "18,000-lb axle loads." It cropped up at the annual convention of the American Trucking Associations and at the National Transportation & Maintenance session of the SAE. It's a perennial favorite at State association meetings; it is continually in the news, as a result of the current Maryland Road Test; and it even has the bus men bothered in the design of new type vehicles.

As viewed from our at least temporarily impartial roost, the thinking boils down into three categories.

First there are the firm believers who contend that 18,000 lb is the ultimate answer for everybody—yesterday, today and forever. In this group are many western operators who can make up in length and multiple axles what they loose in axle loadings; most members of the AASHO, who are committed to their standard code; many engineers of the Bureau of Public Roads, who base their belief on tests of existing road structures; and a great many people—notably the rail interest—who have jumped at conclusions based on interim reports of the Maryland Road Test.

Second, is a some-where-near-the-middle-of-the-road group who believe that there is increasing evidence that heavy loads do have a detrimental effect on *today's* improperly-built highways, but that much of the blame for this effect should be placed on the road builder rather than the truck. Even if it be granted that heavy loads are a contributing factor now, they say, the 18,000-lb figure should surely not be set as the optimum goal for future construction practices and transportation needs.

Third, come the adamant contenders who hold that trucks have nothing at all to do with highway failures and that all the blame should be placed on the highway builders. In this group are, notably, the eastern operators—and for good reason. Limited by state regulations and highly-conjested traffic conditions to relatively short overall lengths, they contend that economically practical loads can be carried only through the use of greater than 18,000-lb axle loads.

It seems to us the time has come for a reasonable meeting of minds at some point a little closer to the middle.

Certainly highway engineers should not be content with an 18,000-lb axle load limit as the ultimate panacea for all highway ills, particularly since virtually all of their arguments are *based on past performance.* That a road built 25 years ago should fail today is no reason why today's roads properly built, should fail in 1975, even with the increased traffic load. Every effort should be made to solve permanently the one spot most vulnerable to attack—the immediate sub-grade. No matter how thick the slab, it will never float indefinitely on mud, as many pavements are trying to do today. Research should be stepped up on new types of both cement and flexible surfaces, and a real effort made *to sell the people* on the value of their very slight added cost. Roads can be built, right now, with proper sub-grades and much better surfaces at only slightly added cost.

On the other hand, fleet operators should be open to sound reason. Arguments citing the failures of the Merritt Parkway (that had no trucks at all) and Maryland's Route 40 (which fell apart in less than 10 years) leave the highway engineers cold. If they are good public servants, they will admit that the weak spots in these roads are prime examples of poor construction. But these, they will add, are the exception rather than the rule. If, and it's a big if, the results of future tests bear out the hand writing on the wall now being penned at LaPlata, Md., then the operators may be forced to admit that heavier-than-18,000-lb axle loads do have a bearing on road wear. Then what will be needed will be sound *proof* that the heavier loads are economically justified.

Meanwhile, in all the arguments on both side of the question, we cannot find a single excuse for setting GVW ratings below that which will permit full use of *at least* 18,000 lb axle loads. Yet it is still being done.

Bart Rawson
Editor

CRACK MECHANICS

Iron and steel and corpulent carpenters have one thing in common — resistance to motion. When either is exerted too much, hysteresis or hysteria may set in. In short they crack up.

Pooed carpenters are relatively easy to locate, but fatigued vehicle parts have long since joined the underground. Cracked rods, split piston skirts, defective bearings or damaged crankshafts have an enviable way of covering up their battle plans.

That's where you come in, brother. You've just gotta' be a crack mechanic to keep these pixies out of the engine, where they will pull an overt act at the slightest provocation. You'll need good eyes and lots of solvent, but you will also require dependable tools and plenty of patience.

Engine and power train parts damn well have to be clean before they can tell you a dirty story. *After* they have come from the parts washer, the steam cleaner or the wash rack, you can call out the elite guard and get ready for action.

Then if you have a Magnaflux, use it. If you subscribe to the dye penetrant method of inspection, be sure to give all suspects a once over. If you resort to plain old skill and know-how, use the sound test, the eye test and the feel test.

While hot from the steam cleaner such parts as axle shafts, brake drums, spiders and similar assemblies should be coated with chalk dust and struck lightly with a hammer. Any surface cracks will show up as dark lines in the chalky surface. Many such defects can be detected from the sounds when struck with a hammer. Bearings can be checked by inspecting the appearance of the face or back. Hair line checks, pitting, pocking, porosity can be detected by sight in many cases.

A straight edge for checking alignment, a good light for locating surface defects, a fingernail for finding cracks will do much to save you later trouble. Dial gages, micrometers or calipers will, of course, show wear conditions and so point to potential failures from loosely fitted parts or pounding surfaces.

It's a lead pipe cinch you won't find all fatigue failures in time to save your cargo—but you can cut the number of breakdowns from this cause to vest pocket size. If a new bearing cap or a con rod bolt will save a complete engine job, it sure as hell will be worth your sweet time replacing it when needed.

Get the "breakdown complex"; it's good round trip insurance—and remember—many many times . . .

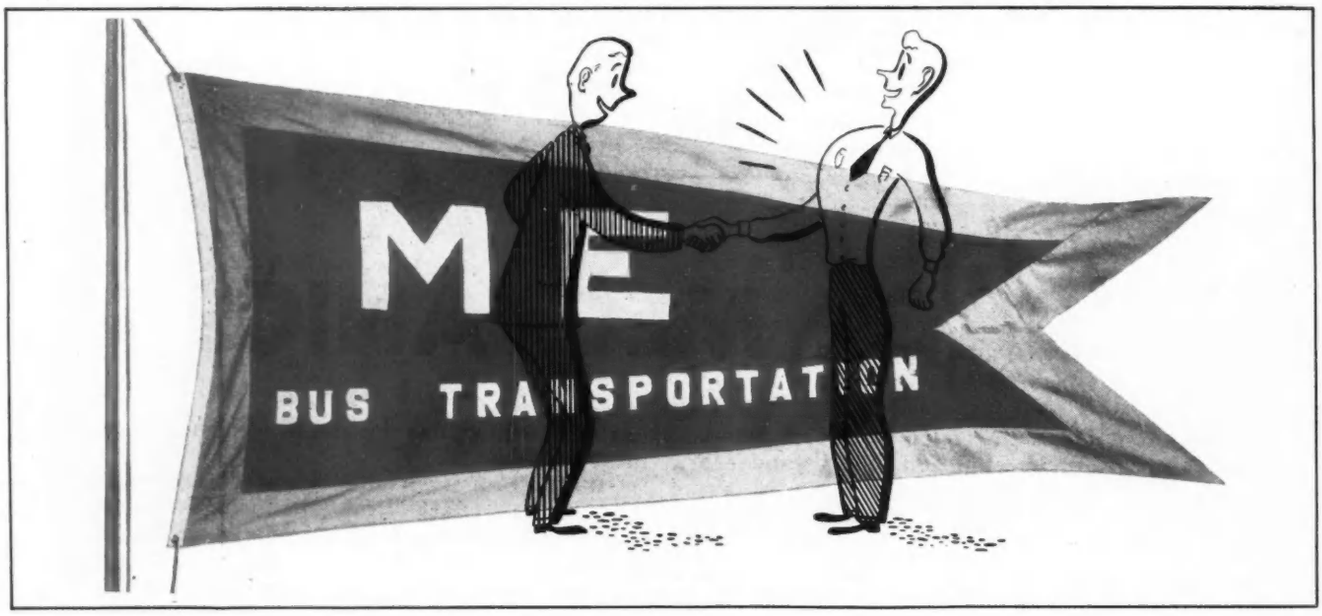
An Overlook Will Cause An Overhaul

Reprints of the above are available at nominal cost. Write the Editor.

Ross Congratulates

The 1950 Winners of the Annual Bus Transportation Maintenance Awards

For a job WELL DONE



AGAIN . . . Ross Steering is *predominant* among the winners of Bus Transportation's Annual Maintenance Awards. Whatever the steering job may be . . . buses, trucks, passenger cars, boats, tractors, shovels, cranes, graders, etc. . . . *Ross assures ease, safety and economy.*

The Ross policy of incorporating advancements in design as they are proved by exhaustive tests has resulted in many recent improvements. Current Ross models have:

(1) ***Increased mechanical reduction*** . . . (2) ***More compactness*** . . . (3) ***Reduction in weight*** . . . (4) ***Greater arm angular-travel*** . . . (5) ***Improved metallurgy*** . . . (6) ***Increased efficiency.***

Throughout 43 years of leadership in this industry, Ross gears have been distinguished for long life, simplicity of adjustment and maintenance of long-recognized qualities of safety, stability and performance. We invite discussion of any steering problem.

Ross

***Cam & Lever* STEERING**

ROSS GEAR AND TOOL COMPANY • LAFAYETTE, INDIANA

CCJ REPORTS

on News of the Industry

Convention Highlights for October

The month of October made transportation history with at least three conventions of national significance being held over the country, many of which tallied up record-breaking attendance. The ATA's 17th Annual Convention in New York was a case in point. Approximately 2200 truck operators, engineers and friends congregated at the Waldorf-Astoria for a week-long session of conferences, meetings and good times. See page 6 for complete details.

On the heels of the truckers came the engineers, with a Transportation and Maintenance Meeting at the Statler in the Big City. For three eventful days 300 engineers and fleetmen heard eight significant papers on such subjects as axle-load weights, traffic noises, accessibility, traction test data on lake ice, fuels and lubricants. For an on-the-spot coverage of the week, see page 10.

In Chicago the same week, safety experts jammed three Chicago hotels to attend the 38th National Safety Congress and Exposition of the National Safety Council. A Fleetman's birds-eye picture is reported on page 356.

Breakdown? Call "Operator 25"

GMC Truck & Coach has put into operation an unique new type of service aid for its customers. Known as "Operator 25", the plan is essentially an agreement between GMC and Western Union for locating the nearest authorized service establishment for GMC truck operators with service difficulties. The driver merely goes to the nearest telephone and asks for Operator 25 who in turn directs him to the nearest GMC gasoline or diesel, or both, service establishment. Cost of the service is paid by GMC. It is aimed particularly to help over-the-road drivers who may have breakdowns in unfamiliar territory or far removed from their home base.

Greyhound Buys 761 Diesels

Greyhound Lines Corp. has ordered $18 million worth of diesel buses from GMC Truck & Coach Div. Delivery of the order, which totals 644 intercity coaches and 117 suburban buses, will be started shortly after the first of the year.

ICC Recommends Insurance Boost

An ICC examiner has recommended that the present minimum requirements of $1,000 property damage insurance for motor carriers be increased to $5,000. However, he did not recommend an increase in the minimum requirements for bodily injury insurance of $5,000 for single and $10,000 for multiple injuries or deaths. He found, however, that "by far the greatest majority of regulated motor carriers and freight forwarders carry bodily injury and property damage insurance in amounts larger than those prescribed as minimum under present regulations."

Unified Federal Traffic

The Defense Dept. and the General Services Administration have agreed to unified handling of Federal traffic management to increase efficiency and economy in the transportation of property and person by or for the government. The Defense Dept. will have jurisdiction on such matters as rates, classifications, and routing for all the military services. GSA will have the same authority in regard to the civilian agencies. There will be joint manuals, guides and training programs, as well as standard terms and forms.

Freight Volume Still Climbs

The volume of freight transported by motor carriers in August, 1950, increased 19.7 per cent over July, 1950, and 35.8 per cent over August, 1949.

(TURN TO PAGE 346, PLEASE)

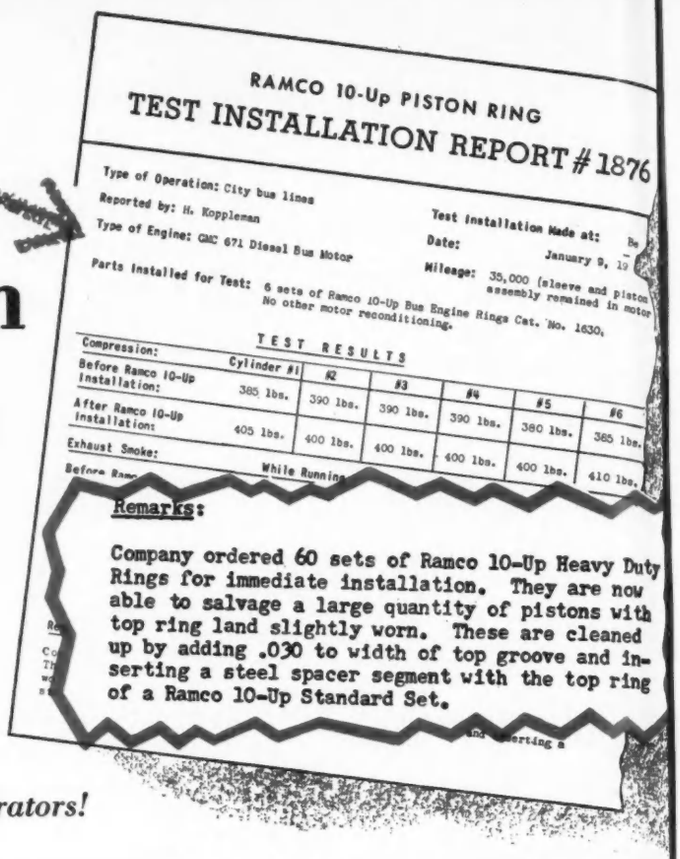
DATES and DOINGS

NOV. 9-10—Society of Automotive Engineers Fuels & Lubricants Meeting, Mayo Hotel, Tulsa, Okla.
NOV. 13-17—Fleet Supervisors Training Course, University of Virginia, Charlottesville, Va.
NOV. 16-18—Montana Motor Transport Assn., Annual Convention, Rainbow Hotel, Great Falls, Mont.
NOV. 20-24—Fleet Supervisors Training Course, Georgia School of Technology, Atlanta, Ga.
NOV. 26-DEC. 1—American Society of Mechanical Engineers, Hotel Statler, New York, N. Y.
DEC. 3-4—Missouri Bus & Truck Assn. Annual Convention, Governor Hotel, Jefferson City, Mo.
DEC. 4-8—Automotive Service Industries Show, Navy Pier, Chicago.
DEC. 7-9—Oregon Motor Transportation Assn. Annual Convention, Hotel Multnomah, Portland, Oregon
DEC. 8-9—New Mexico Motor Carriers Assn. Annual Convention, Hilton Hotel, Albuquerque, N. M.
JAN. 7-10, 1951—National Automobile Dealers Assn. Convention and the N.A.D. Equipment Exhibition, Municipal Auditorium, Miami Beach, Fla.
JAN. 8-12—Society of Automotive Engineers Annual Meeting and Engineering Display, Hotel Book Cadillac, Detroit, Mich.
JAN. 31-FEB. 4—Automotive Transport Trades Council Transport Vehicle Show, Madison Square Garden, New York, N. Y.
MAR. 21-24—Pacific Automotive Show, Civic Auditorium, Seattle, Wash.
APRIL 16-18—American Society of Lubrication Engineers, Bellevue Stratford, Philadelphia, Pa.
APRIL 30—Fourth National Materials Handling Exposition, International Ampitheatre, Chicago, Ill.

A Single Test Installation Will Convince YOU

of the Cost-Cutting Advantages of RAMCO 10-Up Piston Rings

. . . just as it has many other large Fleet Operators!



RAMCO 10-Up PISTON RING

TEST INSTALLATION REPORT # 1876

Type of Operation: City bus lines

Reported by: H. Koppleman

Type of Engine: GMC 671 Diesel Bus Motor

Test Installation Made at: Be

Date: January 9, 19

Mileage: 35,000 (sleeve and piston assembly remained in motor

Parts Installed for Test: 6 sets of Ramco 10-Up Bus Engine Rings Cat. No. 1630. No other motor reconditioning.

TEST RESULTS

Compression:	Cylinder #1	#2	#3	#4	#5	#6
Before Ramco 10-Up Installation:	385 lbs.	390 lbs.	390 lbs.	390 lbs.	380 lbs.	385 lbs.
After Ramco 10-Up Installation:	405 lbs.	400 lbs.	400 lbs.	400 lbs.	400 lbs.	410 lbs.

Exhaust Smoke:

While Running

Remarks:

Company ordered 60 sets of Ramco 10-Up Heavy Duty Rings for immediate installation. They are now able to salvage a large quantity of pistons with top ring land slightly worn. These are cleaned up by adding .030 to width of top groove and inserting a steel spacer segment with the top ring of a Ramco 10-Up Standard Set.

Ramco 10-Up Heavy-Duty Piston Rings *lower maintenance costs* and *increase gas and oil mileage.* A single test installation will prove to you beyond a doubt, the superiorities of Ramco 10-Up special Heavy-Duty Rings in effecting operating economies.

Ramco 10-Up Heavy-Duty Piston Rings revise the old ideas about expander-type rings and re-boring. As shown by the design illustrations below, Ramco 10-Up Rings do not compensate for wear by the use of excessive pressures. The need for such wear-causing methods is eliminated by patented Ramco 10-Up Ring construction, which makes it possible to control oil and blow-by through piston stabilization alone.

A Ramco Representative will gladly give you complete details and arrange for a test installation. Write: Fleet Division, Ramsey Corporation, 3710 Forest Park Blvd., St. Louis, Missouri.

RAMCO 10 up

HEAVY-DUTY PISTON RINGS

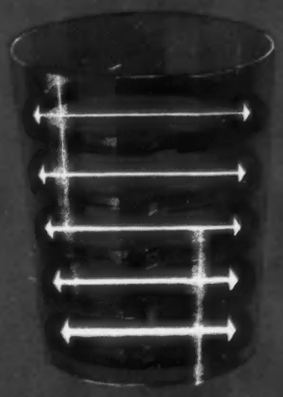
. . . ESPECIALLY DESIGNED FOR FLEET INSTALLATIONS . . . FOR RE-RING OR RE-BORE!

R-4003-FO

These are important reasons for Fleet Operators' Success with RAMCO 10-Up Heavy-Duty Rings!

SPIRO-SEAL the CONTINUOUS STEEL RING

"Bridges-the-Gap" to seal against blow-by. SPIRO-SEAL automatically adjusts to tapered cylinders. Never exerts harsh pressures! It maintains power in badly worn cylinders or in those in fair condition at all times because it is GAPLESS!



ALTERNATING PRESSURE ACTION

Provides EXTRA PRESSURE on the downstroke, where it is required to control oil and blow-by . . . and LOWER PRESSURE on the upstroke, where it is necessary for proper lubrication. The drinking glass illustrates the principle.

EXCLUSIVE "DOUBLE-LIFE" PRINCIPLE

First Life: During the break-in period, the inner ring exerts its gentle pressure ONLY on the cast-iron oil ring. The "endless" Spiro-Seal Ring functions under its own easy tension, adapting to the cylinder's shape.

Second Life: When wear occurs, the inner ring contacts BOTH the cast-iron ring and the Spiro-Seal Ring with a gentle pressure that compensates for wear. The bearing surfaces thus retain full contact with the cylinder wall to seal against blow-by and properly control lubrication.

CCJ REPORTS

DETROIT DISPATCH

by LEN WESTRATE Detroit News Editor

No New Truck Production Record Seen

A few weeks ago it looked as though truck building would reach a new all-time production high this year. Production passed the 1 million mark about the first of October, but with materials shortages increasing and model changeovers coming up for at least two of the volume producers before the end of the year, 1950 truck production is likely to fall just a little short of the '48 record of 1.376 units.

. . . But Sales Continue High

Sales of new trucks continue at a high rate, although they have tapered off some from the all-time record of 126,533 new registrations in August. Analysis of sales figures for the first eight months of this year reveals that the largest gain over last year has been in the half-ton field, which was up 78,555 units over the same period a year ago. In the three-quarter to 1-ton class, however, registrations were down more than 28,000 and in the so-called 1½-ton classification they were only 600 ahead of a year ago. There has been a noticeable stepup, however, in sales of 2-ton and heavier units. The 2- to 3-ton units were nearly 20,000 ahead the same date a year ago, and heavy and heavy-heavy jobs were ahead of last year by almost 23,000 units.

Only Axle Parts Supply Tight

Replacement parts for trucks are generally in good supply but shortages have cropped up in a few items. Axle parts are rather tight for current models, principally because present production is so high on new trucks. Parts for older models, however, are in better supply.

The Price Outlook

Although Ford, Dodge, Chevrolet and GMC have not yet raised truck prices, it probably is only a matter of time until they do. Heavy discounting on trucks tapered off sharply during July and August, but is reported still in effect and again on the increase. Consequently, even if basic truck prices are raised, buyers may not bear the full brunt.

No Startling Developments on '51 Trucks

At least three truck manufacturers will be bringing out 1951 models within the next two months, with the first one to appear about the middle of December. Nothing particularly startling is in the works so far as mechanical changes are concerned, but appearance alterations are said to be rather extensive.

Are Railroads Moving In?

There is a growing belief that the rules covering the extent to which railroads may engage in the trucking business may be liberalized. Presently, the use of trucks by railroads is limited to supporting operations, but it is believed now that the rules may be released to permit greater activity in the field of trucking than now is permissible.

No Lower Octanes at Present

Although gasoline octane ratings have been reduced slightly, fleet operators should experience no particular difficulty, because present truck engine compression ratios are not in the critical range where a change of a point or two either way would make any difference. A Detroit automotive engineer says that the future trend will be for truck engine requirements to approach the higher levels of passenger car requirements, but that the present commercial vehicles should operate satisfactorily on a lower octane than is generally available. Fuel outlook at the moment is a satisfactory octane rating for the next year or so with no possibility of an increase because of aviation gasoline requirements.

Public Opinion Against Trucks Rising

Evidence of rising public opinion against trucks is revealed by analysis of clippings received by a large trade association in Michigan. During one month, 95 per cent of the 481 clippings received by the group concerned trucks with the overwhelming majority unfavorable in nature. The news clippings dealt with overloading, road damage, congestion, and enforcement of weight laws.

AAMVA Fights Fine Deductibility

The state motor vehicle administrators have joined other groups protesting allowance of fines paid for overloading as deductible from income taxes. AAMVA has called on the Bureau of Internal Revenue to eliminate such fines as deductible business expense.

Outlook Optimistic for 1951

Truck builders are trying to evaluate the effect of government controls over the economy on the demand for new trucks next year. There is a strong feeling that trucks may get preference because of their essential nature and that, even in the event of an all-out war, production of trucks and trailers would not be halted completely but would be continued on a partial basis of, perhaps, 50 per cent.

"CHECK YOUR GRAIN SIZE, MISTER?"

You *might* save a nice piece of change by specifying ordinary carbon steel for your heavy duty frames.

But your carbon steel frame might weigh 1,600 pounds! And it might cost you something to make major repairs every 4,000 or 5,000 miles.

Now to improve your frame, we can—

- reduce its weight by about 40% or—
- increase its strength by 100 to 200%, and
- give it a 150% higher fatigue resistance

—by proper heat treatment that "knits together" a fine grain structure in the steel. As a result, you get greater resistance to fatigue and crystallization—longer frame life.

When you are buying new equipment it will pay you to take a second look at the frames. Check your grain size by making *sure* you are getting Parish Heat Treated Frames.

Only Parish *Heat Treated* Steel Frames give you extra safety and lower costs in the long run.

PARISH PRESSED STEEL COMPANY
subsidiary of Dana Corporation READING, PA.
Western Representative: **F. SOMERS PETERSON COMPANY**
524 Folsom Street, San Francisco
413 East 12th Street, Los Angeles

ONLY PARISH STEEL

HEAT TREATED SIDE RAILS GIVE YOU EXTRA SAFETY IN THE LONG RUN!

CCJ REPORTS

WASHINGTON RUNAROUND

by GENE HARDY Washington Correspondent

Knudsen's Concern Still is Steel

While there is some feeling in Washington that the mobilization program might, without warning, snowball into something that would strike hard at all of industry, there are as yet no definite signs that the trucking industry is facing any hardship due to government controls. The Defense Transportation Administration is concerning itself primarily with getting adequate steel so as to bring freight car output up to a total of 10,000 cars a month by Jan. 1. DTA Administrator Knudsen says that "programs for other agencies of transportation including waterway, street and highway are in the course of preparation."

Industry Manpower Essentiality Studied

There has been a meeting on maintenance manpower problems called by B. J. Miller, industrial relations director for ATA, now developing a manpower division for DTA. This meeting was preparatory, in order to be ready if manpower demands from the military and defense plants seriously begin to hurt the trucking and allied industries. It is conceded that there is no real problem now. However, with some talk of building the military services up to 5,000,000 men rather than 3,000,000, DTA wants to be ready to present a claim as to the essentiality of automotive maintenance men. These meetings were attended by manufacturers, truckers, dealers, parts wholesalers and others representative of the automotive industry.

That manpower may soon develop into a serious problem is indicated by the Labor Dept. Bureau of Employment Security which reports that manpower shortages resulting from the mobilization program continue to grow. The heaviest hard-to-fill demand is occurring in the skilled metal working occupations. Job openings are reported high in the following occupations: motor vehicle mechanics and repairmen, machinists, welders, sheet metal workers, tool and die makers, electricians and lathe operators. . . .

The Tire and Rubber Situation

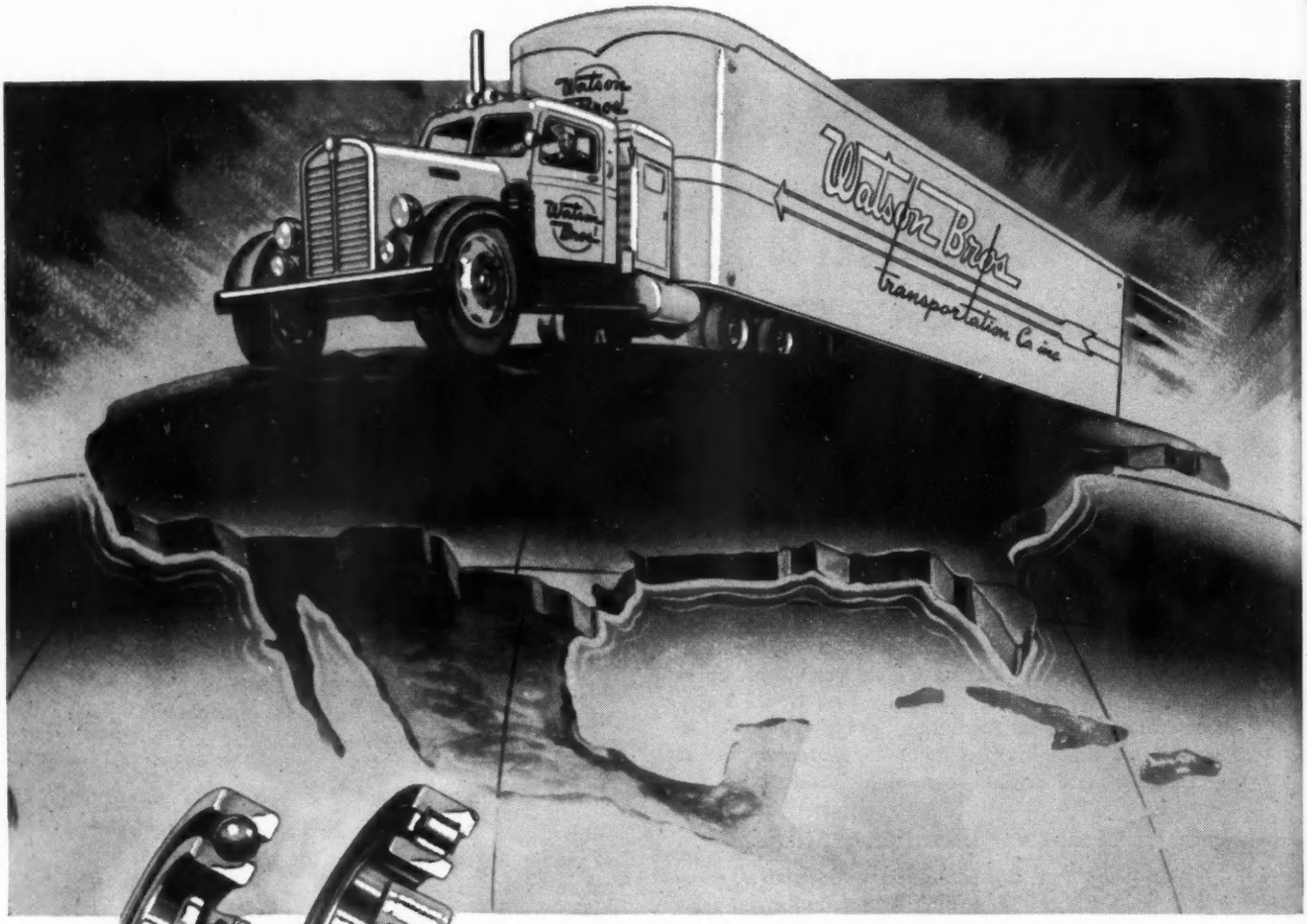
DTA Administrator Knudsen also says that he will step into the tire picture if reports of shortages persist, and are not solely due to maldistribution. In this connection, he could appear before the National Production Authority and claim a portion of the tire output for the highway transportation industry. While there has been a lot of scare buying of replacement tires, shortages of original equipment tires are also cropping up, particularly in the truck-trailer industry. . . . Meanwhile NPA has ordered the rubber industry to pull back its consumption of rubber to pre-Korean levels of about 90,000 tons monthly, effective Nov. 1. This represents a decline of about 20,000 tons a month. However, there are no changes in specifications for tires and tubes and the manufacturers still have discretion as to the amounts of synthetic and natural rubber used; particularly in large tire sizes. While truck tire quality seems assured for some time, a 20,000-ton cut obviously means that unit production must be cut back some place. NPA says that tire production should not decline this year, but rubber industry sources are skeptical and point out that the 20,000-ton cut will have to be absorbed somewhere.

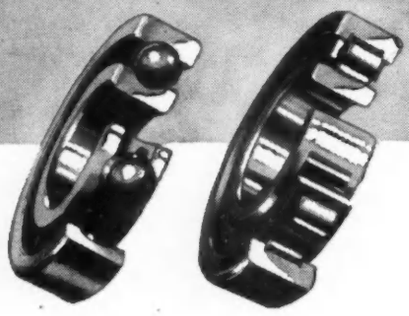
Truck-Trailer Men Push Essentiality

Shortages of metals are likely to bother producers of automotive equipment before the tire situation becomes acute. The truck-trailer industry has been the first to present DTA with a complete bill of materials needed to maintain production. Trailer manufacturers feel that their product is just as essential as railroad freight cars and intend to push for the No. 2 essential transportation equipment spot once the allocations for freight cars are worked between DTA and NPA.

Washington Miscellany

The Army is using three times the amount of truck shipping services now than it used at the peak of World War II. . . . A Federal District Court has upheld the ICC definition of private carriage, applying the "primary business test." The action involved the dismissal of a complaint of several common carriers and the ATA Common Carrier Conference asking for a reversal of the ICC decision in the celebrated Lenoir and Schenley cases. . . . The Federal Trade Commission has ordered the Ideal Cement Co., Denver, to refrain from unlawfully discriminating in price against customers who take delivery of cement by truck or other motor transport. FTC found that such customers were charged 20 cents higher than those who took shipment by rail. . . . The Supreme Court has agreed to review a lower court order which holds that Spector Motor Service, a Missouri firm, is liable for taxes on net income derived within the State of Connecticut. The eventual ruling will affect the trucking industry generally, since a similar tax is in effect in about 30 states. . . . The ICC says that structural steel isn't structural steel when used as frames for trucks or truck bodies. Carroll Trucking Co. was denied the right to transport steel channels for this purpose under its authority to haul structural steel, even though the channels consist solely of structural steel. ICC says the authority extends to this type of steel only when it is used in buildings, bridges or similar products.





Watson Bros.
Haul 701,000 tons of freight
30 MILLION MILES A YEAR

Watson Bros. Transportation Co., Omaha, Neb., have 1500 units in operation in their country-blanketing trucking service. They average 27 million pounds of freight a week—and they've earned a solid reputation for "on schedule" delivery whether it's a big city shipment or a pinpoint delivery.

Much of this reputation is due to the efficiency and completeness of the overhaul and maintenance shops where tractors and trailers are kept in topnotch condition.

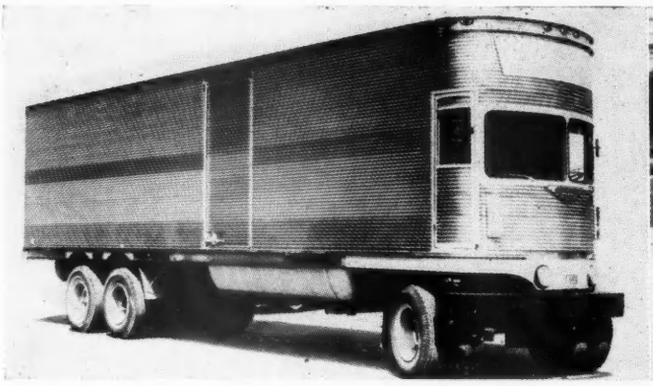
Their ball and roller bearing requirements are filled by the Omaha Gear & Parts Company—another SKF Distributor who specializes in round-the-clock service.

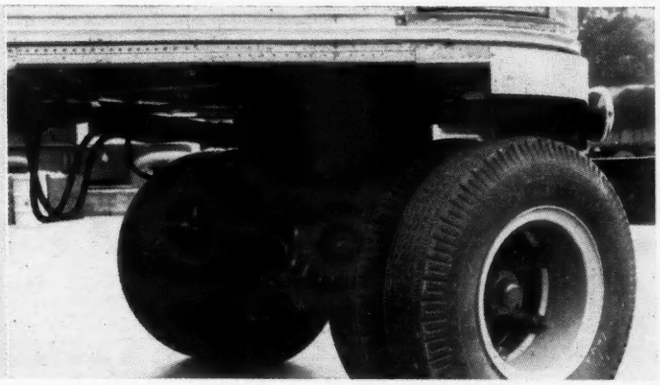
Get to know *your* SKF Distributor. He knows bearings—and he always gives the service that helps you operate at a profit. **SKF** INDUSTRIES, INC., PHILADELPHIA 32, PENNSYLVANIA—*the Pioneers of the Deep Groove Ball Bearing, Spherical Roller Bearing, Self-Aligning Ball Bearing.* 7147

8 REASONS WHY SKF IS PREFERRED BY ALL INDUSTRY

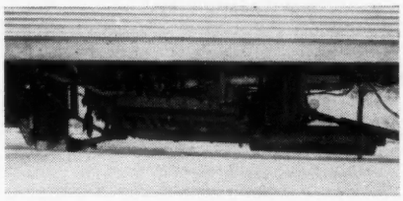
Integrity – Craftsmanship – Metallurgy – Tolerance Control – Surface Finish – Product Uniformity – Engineering Service – Field Service

SKF
BALL AND ROLLER BEARINGS





Fageol Super Freighter for Gasoline or LP Fuel



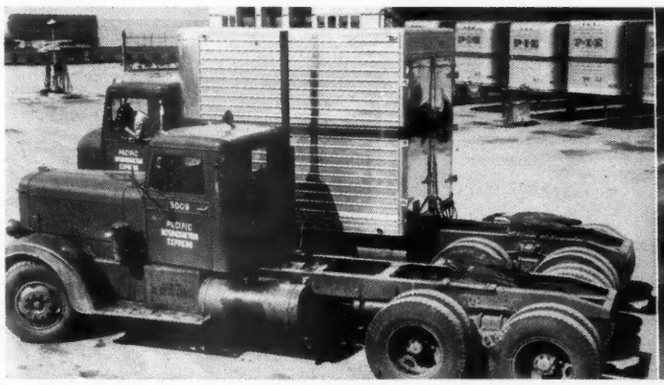
Above, left. Modified Fruehauf trailer with Fageol power. Top. Steering mechanism. Above. Under-body horizontal engine

TWIN Coach Co. has provided one answer to the payload vs weight problem with this revolutionary development utilizing a Fruehauf trailer and a Fageol horizontal in-line engine mounted underneath the floor. This self-propelled "trailer?" is essentially a standard unit from fifth wheel to bogie with a driving axle attached, a power steering unit and driver's compartment and controls mounted in the nose. The engine is the same underfloor unit used for present Twin buses, developing from 162 to 250 hp, depending upon the compression ratio and the type of fuel used. Either gasoline or LP engines are available.

Standard parts are used in the modification. The dual-tired front end assembly is a standard Fruehauf suspension unit pivoting at the king pin. The entire assembly—axles, suspension system and front bumper—turn as a unit through a Gemmer steering mechanism and a Vickers hydraulic booster. Semi-elliptic springs are used on the front, while the rear assembly is supported on torsion bars. Bendix-Westinghouse air brakes will be supplied. Three transmissions—Spicer, Clark or Brownies—and three rear axles—Timken, Clark, or Eaton—are available.

When propane is specified, the Ensign-Fageol fuel system operating from a 106-gal tank is furnished. The 12-volt electrical system employs an Exide battery, a Delco starting motor, and either a 25-amp Delco generator or a Leece-Neville alternator.

PIE Adds 664 Cu Ft Cargo Space in "Hump" of the "Dromedary"



This new type combination developed by Pacific Intermountain Express carries as much as 2200 lb of extra freight in a 664 cu ft compartment set on the tractor itself. The new cab over engine unit permits installation of this 12 x 8 x 8½ ft aluminum box or "hump" aft of the cab and forward of the fifth wheel, and still keep the overall length of 54 ft 8 in. for tractor and semi-trailer well below the legal limits for highway use. The added box conforms in height and width with the trailer body so as to make an attractive streamlined appearance. Standard doors in rear permit easy loading while tractor is unhitched through a specially-designed ramp. In this way the extra box will be used when semi-trailers, are not able to accommodate maximum authorized loads

KEEPING AMERICA'S CLOTHES CLEAN...

. . . takes more than scrubbing. Fleets pick up and deliver thousands of shirts, sheets and suits daily. Breakdowns are hard on customers . . . hard on profits. Efficient service depends on superior lubrication and sound maintenance practices.

Fleet owners—from coast to coast—count on WOLF'S HEAD for *both!*

WOLF'S HEAD MOTOR OIL—100% PURE PENNSYLVANIA, "PREMIUM GRADE"— is made from nature's finest crude, refined three steps further than ordinary oil! It gives instant, full-bodied lubrication at all temperatures . . . resists heat, sludging, oxidation, corrosion . . . holds oil consumption and engine wear to a minimum.

WOLF'S HEAD HEAVY DUTY MOTOR OIL—100% PURE PENNSYLVANIA— is specially refined and skillfully fortified to meet *every* heavy duty requirement. It provides a rich, strong, tough film of protection—excellent detergency—unexcelled dispersancy—maximum resistance to oxidation and corrosion—superior stability!

WOLF'S HEAD LABORATORY CONTROL SERVICE PLAN—gives you specific recommendations for the maintenance of every vehicle in your fleet. Establishes correct drain periods, reduces down-time and maintenance costs, frequently reveals unsuspected engine trouble. Available at no cost to you.

Free!... "Rules-of-the-Road" folder. Contains traffic rules, speed laws, driving information for all 48 states. Give them to your drivers—write for your copies.

Wolf's Head Oil Refining Company, Inc., Oil City, Pa., New York 10, N. Y.

WOLF'S HEAD

MOTOR OIL AND LUBES

100% Pure Pennsylvania "Premium Grade"

Member, Penna. Grade Crude Oil Association

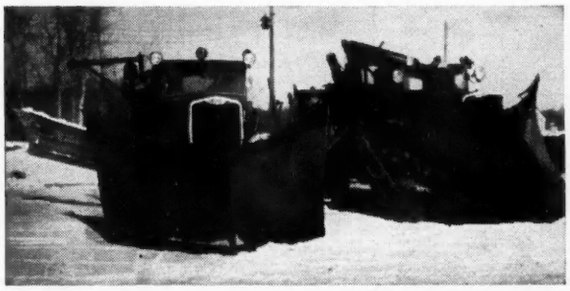
BILL SMITH, SR., AND BILL SMITH, JR.
BALSAM TOWNSHIP, MINNESOTA

TWO Generations Drive Same Oshkosh Truck!

● 17 years ago, when Bill Smith operated this Oshkosh truck for Itasca County, Minnesota, young Bill was in kindergarten. Today—Bill, Jr., holds Dad's old job . . . drives same dependable Oshkosh 4-wheel drive truck.

Yes! This 1933 Oshkosh truck is still going strong—after 17 years' continuous service on Itasca County roads! An "old-timer" compared to modern Oshkosh equipment, its rugged engineering keeps it rolling year after year.

Oshkosh Trucks, with sure-footed traction in ALL wheels, are designed for gruelling snow removal work . . . on-and-off highway hauling . . . construction jobs . . . with minimum upkeep expense. Ask the Bill Smith *family* . . . or any Oshkosh user.



Model Y2D-704, 1933 Oshkosh Truck shown with other Oshkosh Trucks operated by Itasca County, Minn.

SERVICE STATIONS LOCATED AT CONVENIENT POINTS THROUGHOUT THE UNITED STATES AND CANADA.

OSHKOSH

4 and 6 WHEEL DRIVE TRUCKS

OSHKOSH MOTOR TRUCK INC.
OSHKOSH WISCONSIN

New Truck Registrations by Makes by States*

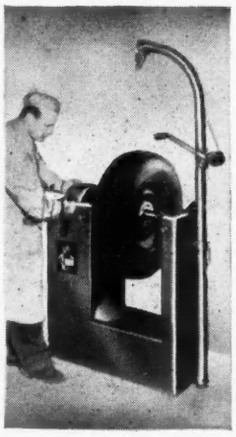
STATE		Autocar	Brockway	Chevrolet	Diamond T	Divco	Dodge	Federal	Ford	FWD	GMC	International	Kenworth	Mack	Pontiac	Reo	Sterling	Studebaker	White	Willys	All Others	Total
Alabama	August	1		804	1		150		536		145	211		16	1	2		61	12	33	1	1,977
	8 Mos.	4		6506	13	16	1101	4	5008		1442	1224		127	12	13		727	144	313	10	16,664
Arizona	August			320	1		78	6	200	2	107	71		1				41	3	43	2	875
	8 Mos.			1655	6	11	333	6	1329	2	497	320	6	10	3	6	3	249	20	193	11	4,660
Arkansas	August			861			112		558		224	179		2	2	1		94	13	27		2,073
	8 Mos.			5985	18	2	1232	2	4364		1419	1002		29	21	16		818	25	291	5	15,229
California	August	26	6	3207	60	64	954	3	1919	1	1025	638	26	34	5	10	7	383	54	200	39	8,661
	8 Mos.	80	6	16230	213	313	2999	20	11002	31	4022	2730	125	166	38	69	58	1930	234	771	182	41,269
Colorado	August			693	8	10	136	1	334	1	152	194	5	7		2		92	9	62	2	1,708
	8 Mos.			4429	33	39	705	8	2603	4	816	953	17	26	5	18		556	35	369	30	10,6 6
Connecticut	August	6	5	312	9	10	109	19	200		63	137		25		5		41	18	38		997
	8 Mos.	28	42	1983	62	77	517	58	1588	2	466	609		147	19	26	9	259	98	185	17	6,172
Delaware	August	1	1	146	4		36		83		27	43			1			5	1	10		358
	8 Mos.	10	8	804	15	4	156		638		153	230		6	8	3		69	19	34	11	2,168
Dist. of Columbia	August	1		130		4	29	3	57		22	35		1		3		3	1	5		294
	8 Mos.	9	4	752	14	42	153	9	486		158	174		26	8	12		28	12	32	4	1,923
Florida	August		1	1040	9	1	240		727		202	176		28	2	7		149	10	123	8	2,723
	8 Mos.	2	2	5538	84	43	1361	10	4865		977	1057		208	18	56		1010	125	618	44	16,018
Georgia	August		1	1481	3	3	301	6	925		240	340		18		9		155	17	38		3,537
	8 Mos.	2	2	8908	38	22	1971	30	7791	1	1740	1909	1	152	13	75	1	1224	192	335	16	24,423
Idaho	August			385	9	1	76	2	217		147	99	2	1		5		58	2	62		1,036
	8 Mos.			1884	38	2	313	9	1236	2	637	546	45	15	4	22		293	26	302	15	5,389
Illinois	August	6	2	2582	74	22	617	4	1514	1	498	711		39	10	11	1	235	72	63	18	6,480
	8 Mos.	58	5	12183	371	117	2734	19	8733	6	2338	3830		190	55	91	4	1282	392	383	59	32,850
Indiana	August	1		1439	19	18	364	3	1043		270	550		5	3	17		211	64	54	3	4,054
	8 Mos.	6	2	6254	80	62	1360	15	5325	2	1230	2249		50	24	58		1075	262	267	36	18,357
Iowa	August			883	4	4	220		729		131	379		7	1	5		86	20	35	1	2,505
	8 Mos.	2		7613	88	40	1400	1	5600		1049	2416		59	18	41		728	114	211	11	19,391
Kansas	August			912	7	5	179	3	647		217	336		6	5	11		103	11	49		2,491
	8 Mos.			5791	41	20	800	6	4140	1	1180	1720		13	28	42		540	56	191	5	14,574
Kentucky	August			1036	7	10	191	1	732		234	309		2	6	3	1	77	5	101		2,715
	8 Mos.	4		6830	62	37	1047	13	4786		1797	1609		24	29	20	1	632	66	560	6	17,523
Louisiana	August	4		791	6		166		588		214	188		3	1	5		95	17	67	1	2,146
	8 Mos.	7		5353	37	4	1015	3	4623	1	1454	1034		21	14	14		806	63	295	16	14,760
Maine	August		1	171			62	2	109		54	77		10	1	1		29	3	20		540
	8 Mos.	9	13	1838	7	4	414	9	1044		565	635		65	16	9	1	244	26	165	5	5,069
Maryland	August	2	3	543	5	24	145	8	363		97	218		1	2	4		31	12	14		1,472
	8 Mos.	13	55	3174	40	70	780	46	2378	1	551	835		104	10	35		244	111	90	10	8,547
Massachusetts	August	24	17	487	16	12	206	5	300		116	190		36	3	17	5	69	47	37	5	1,592
	8 Mos.	168	99	3888	124	116	1276	31	2950		841	1207		273	55	82	56	580	265	202	13	12,226
Michigan	August	6		1936	15	27	472	22	1584		329	339		22	3	22		124	27	47		4,975
	8 Mos.	18	1	12085	86	173	2271	91	10381	2	2014	2022		159	21	162		769	183	263	23	30,724
Minnesota	August			873	10	8	289		704		180	334		9	3	4		148	19	37	1	2,619
	8 Mos.	3		6606	78	73	1258	14	5064	10	1126	2279	33	72	28	22		1143	92	219	33	18,153
Mississippi	August			804	1		148		536		228	209		4	2	1		71	13	27		2,044
	8 Mos.	1		5513	10		957	4	3925	1	1637	1038		26	16	10		665	49	214	8	14,074
Missouri	August			1683	5	6	232		908		288	271		2	1	3		124	16	42	1	3,592
	8 Mos.	5		9554	38	52	1511	2	5959	2	1939	1826	3	88	18	43		883	180	269	34	22,406
Montana	August			507	6		78	1	293	1	137	174	2	1		10		76		72		1,355
	8 Mos.			2485	30	1	446	10	1510	3	533	806	17	5	6	28		354	14	480	8	6,736
Nebraska	August			647	19		131		447	1	159	273	2	3	1	5		66	11	38		1,803
	8 Mos.			4713	142	12	684	3	3571	8	936	1467	20	18	11	22		512	68	326	13	12,526
Nevada	August			69			24		39		38	8						8		11		197
	8 Mos.			433	3		73		287		194	74			3			64	2	74	1	1,208
New Hampshire	August			114		2	46		53		38	32		9		5		12	1	12	1	325
	8 Mos.	12	7	858	13	9	345	3	624		256	306		69	6	29		121	14	84	2	2,758
New Jersey	August	24	42	1002	27	42	371	6	556	9	307	375		44	5	11		96	50	66	6	3,039
	8 Mos.	130	197	6266	185	177	1551	49	4670	16	1649	1738		380	94	52	11	571	333	378	23	18,470
New Mexico	August			484	1		69	9	235		96	68		8	1			52	1	32		1,076
	8 Mos.	1		2664	2		375	9	1304	2	667	331	4	28	3	1		375	15	154	13	5,948
New York	August	32	89	1719	61	25	739	25	1158	4	439	620	1	126	13	54	9	133	120	126	19	5,512
	8 Mos.	360	513	12712	591	242	4415	174	8439	37	3414	4331	1	1128	94	291	41	1325	765	861	228	39,962
North Carolina	August	11		1416	5	8	363	2	1120		369	537		84	5	4		185	37	46	29	4,221
	8 Mos.	55	4	7762	29	46	1420	15	6357		1404	1559		411	22	19	4	920	202	262	121	20,612
North Dakota	August			464	6		84		397		87	230						51	1	35		1,355
	8 Mos.			1759	19	2	325	2	1465		314	826		7	2	1		247	1	158	6	5,134
Ohio	August	15		1780	45	56	496	12	1436		404	690		32	1	26		159	112	80	2	5,346
	8 Mos.	80	9	12687	272	271	2768	70	10173	7	2601	4058		404	99	168		1226	800	463	18	36,174
Oklahoma	August			1024	1	9	251		779		231	239		5		5		114	24	58	2	2,742
	8 Mos.	1		6843	11	44	1288		5089	11	1570	1434		36	16	40		750	150	270	12	17,565
Oregon	August	1		407	5		103	2	221	4	141	138	1	14				41	3	62	7	1,150
	8 Mos.	14		2964	60	17	616	4	2294	4	917	923	25	75		8	3	361	39	428	43	8,795
Pennsylvania	August	28	72	2570	47	21	989	7	1523		564	979		62	16	60	2	287	138	159	13	7,537
	8 Mos.	130	385	13501	286	99	3841	80	10528	3	3121	4421		558	117	302	23	1406	772	702	73	40,348
Rhode Island	August	9		121	3	5	55		66		29	51		5				8	4	8		364
	8 Mos.	45	5	791	17	43	305	1	758		161	301		62	12	17	4	108	41	78	3	2,752
South Carolina	August			552			141		407		151	106		10	1			62	7	16	2	1,455
	8 Mos.	6		3803	5	15	702	1	2833	4	884	556		93	12	5		424	72	106	12	9,533
South Dakota	August			289	8	4	76		180		61	152	1		1	1		38		39	2	852
	8 Mos.			1744	63	5	363	2	1309	3	323	806	12	2	8	7		234	12	244	9	5,146
Tennessee	August	1		913	5	4	273	2	617		234	280		11	1	3		84	46	46	1	2,521
	8 Mos.	12	2	9003	73	31	2275	19	6465	3	2594	2116	2	171	19	41	2	1323	261	437	26	24,875
Texas	August	7		5261	31	19	1011	3	3587		1356	1169	2	30	11	13		558	98	236	1	13,393
	8 Mos.	48	1	23805	127	70	4560	23	18331	1	6236	4485	11	189	53	64		2890	414	1099	46	62,453
Utah	August			266	11		49	2	182		87	89	2	6	1			26	6	20	5	752
	8 Mos.			1739	49	8	235	3	959	2	457	415	16	24	9	12		141	25	122	28	4,244
Vermont	August	1	4	115			37		42		27	42		4		2		10		20		304
	8 Mos.	1	9	696	1	3	253		392		261	291		17	1	9		85	4	139	12	2,174
Virginia	August	12	2	1137	3	8	296	2	739		235	312		13		2		95	19	66	2	2,943
	8 Mos.	39	20	6498	18	38	1302	19	4915	1	1384	1291		132	12	25		687	155	284	33	16,853
Washington	August			592	10	7	162		379		174	224	3	7		5		77	11	78	2	1,731
	8 Mos.	2		3787	40	46	815		2379		957	1129	36	80	18	20	3	404	46	348	59	10,169
West Virginia	August	2	6	495	5	6	148		332		127	109		8	1	2		50	5	80	1	1,377
	8 Mos.	3	13	2789	11	19	682	10	2222	2	686	559		52	15	16		257	40	497	6	7,879
Wisconsin	August			1139	13	14	203	9	791	3	215	427		4	6	13	2	116	11	46	5	3,017
	8 Mos.	6		5733	63	56	931	18	4230	32	912	1799		50	33	70	3	619	136	195	45	14,931
Wyoming	August			249	3		44		147		68	90						12	2	52	2	669
	8 Mos.			1353	12	3	254	8	743	1	360	352	1	4	2	3		134	7	299	5	3,541
Total	August, 1950	221	252	46851	588	459	11771	170	31239	27	10984	13648	47	765	116	369	27	4904	1173	2728	184	126,533
Total	August, 1949	105	110	29698	369	237	10180	57	19933	19	7551	8331	24	603	21	276	14	4950	615	2201	245	85,539
Total	8 Months, 1950	1374	1404	278744	3718	2596	58488	933	207665	208	62839	69828	375	6051	1148	2195	227	32342	7177	15240	1449	754,001
Total	8 Months, 1949	1157	998	230464	3565	2419	77380	862	117005	233	54206	61001	271	4167	274	2673	159	38067	5437	24844	2749	627,831

* Data from R. L. Polk & Co.

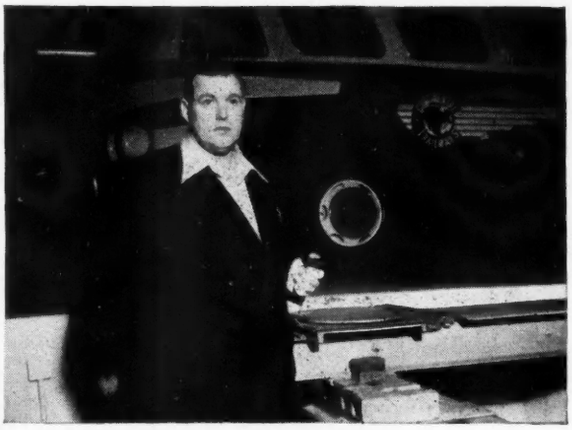
Here's How CONTINENTAL TRAILWAYS Keep Maintenance Costs DOWN . . . Driver Satisfaction UP!

T. O. Mashburn, Superintendent of Maintenance, is a "BEAR" for Periodic Alinement and Balancing Inspections.

Keeping a watchful eye on a fleet of almost 200 interstate buses that roll up around 2 million miles per month is a big job. Like other successful maintenance men, T. O. Mashburn finds that periodic alinement inspections pay-off in lower maintenance costs and greater driver satisfaction. The Continental Shop is equipped with "Bear" Wheel Alinement, Wheel Balancing and Frame Straightening Equipment. Mashburn finds that a great deal of time and out-of-service losses are saved by doing inspection and correction work in their own shops. All vehicles are subjected to periodic inspections, but are brought in immediately if unusual tire wear is noticed or if drivers complain of hard steering or vibration.



Continental mechanics make regular inspections and tests for mis-alinement.



T. O. Mashburn, Supt. of Maintenance.

Mechanic uses "Bear" Gauge to check camber, caster, kingpin inclination angles.

Own Equipment is Sound Economy

The extra convenience and economy of doing your own alinement inspection and correction work more than pays for the cost of equipment. In addition to the hours of time saved by mechanics, and the lower out-of-service losses, having your own equipment permits following a rigid periodic inspection program. Your "Bear" Jobber will be glad to help you work out a periodic inspection program of your own or you can obtain complete information by writing to: BEAR MANUFACTURING COMPANY, Dept. C-3, Rock Island, Ill.

"BEAR" SAFETY SERVICE

"BEAR" THE BANNER OF SAFETY

R5052

free PUBLICATIONS

FOR YOUR CONVENIENCE USE THIS POSTCARD

A selected list of the latest literature—catalogs, pamphlets, charts — chosen to help fleetmen improve operation and maintenance.

L49. LP Gas Bulletin

This new bulletin of technical facts concerning the use of propane fuel in trucks and buses, entitled "What are the facts about propane?" points out that rising demand will have little or no effect on propane supply or price. A chart of gasoline, diesel and propane prices from 1940 until the present is included. Prepared by the Twin Coach research department, this shows that as gasoline and diesel prices have gone up, cost of propane has come down.

Propane operating advantages, as listed in the bulletin, include a savings of up to two cents per mile on fuel costs. Other savings include reduction of maintenance expense to a new minimum, elimination of obnoxious exhaust fumes and smoke, and up to 50 per cent extension of time between engine overhauls. Write L49 on the free postcard for a copy of this publication.

L50. Lighting Manual

This 16-page revised edition of a well-known booklet covering all phases of automotive lighting is now available to the fleetman. Opening with a discussion of the potentialities of the auto bulb replacement market, the manual illustrates the 25 uses of bulbs on the average modern car.

Several illustrated pages provide instructions for replacing the various types of automotive lamp bulbs, and a headlight adjusting and aiming procedure is described in detail. A special section on service slants and helpful hints will be especially valuable to the mechanic and owner.

Write L34 on the postcard for a free copy of this handy manual.

L51. Diesel Booklet

An important pamphlet describing the interesting "inside" information on diesel engines used in GMC trucks is being distributed to truck operators. The booklet, written in the form of an information "Quiz," asks truckers such questions as "What is 2-cycle?" and then provides the correct answer:

"In a 2-cycle, or two-stroke cycle engine, every downstroke of the piston is a power stroke. There are no "pumping" strokes required to pull in fresh air or push out burned gases. A 2-cycle engine such as the GMC Diesel, produces twice as many power strokes for each turn of the crankshaft as a 4-cycle engine. This results in a greater power output and smoother operation."

Answers also are given for such questions as "Are Diesels Hard to Start?", "What is the Fuel Injection Pressure?", "Why Use a Governor?", "Are Diesel Exhaust Gases Poisonous?", "Why Aren't Diesels Used in Autos?", "Is the GM Diesel Supercharged?" and others.

Truck operators may obtain copies of the Diesel pamphlet by writing L51 on the postcard.

L52. Brake Fluid Service

Wagner Electric Corp. announces the publication of a new hydraulic brake fluid service bulletin, containing latest information and detailed instructions complete with diagrammatic sketches and illustrations on how to check, drain, flush, refill and bleed hydraulic braking systems including self-contained power units and multi-cylinder foundation (wheel) brakes. Tools and equipment necessary to speed up and satisfactorily service hydraulic braking systems are described.

Bulletins are available free of charge and can be obtained by writing L52 on the postcard.

L53. Tire Care Data

The Rubber Manufacturers Assn. has just issued a four-page folder "How to Rotate Truck Tires and Get Extra Service."

This publication describes and illustrates what happens if truck tires are not rotated; how maximum wear can be obtained through rotation, the effect of mismatched duals on tire loading, and how turning radius affects tire wear. It also explains how to match dual tires and how and when truck tires should be rotated on various truck and tractor combinations.

Write L53 on the accompanying postcard for a free copy.

L54. Welding Data

A new Hobart Arc Welding News, a 24-page booklet containing interesting photographs and articles on welding from all over the country, is now available. Many of these articles feature time and money-saving applications; others show how home-made devices have been constructed by the welding process. Welders will be interested in the information found here. Write L50 on the postcard for a free copy.

FOR YOUR CONVENIENCE USE THIS POSTCARD

New PRODUCTS

Illustrating and reviewing newest developments in parts, accessories, shop equipment and tools. For more information use the attached postcard.

P24. Lock Type Connector

A new flap lock type connector, an A.T.A. approved 7-way unit and a 4- and 6-way unit, features a tunnel shaped guide between cover and socket that automatically pre-aligns plug for one-handed assembly into flange socket. Terminals in both plug and socket are color coded and are made of a special bronze alloy for electrical connection which minimizes voltage drop. Socket has a locking flap with an automatic release that lets go without damaging flap if trucker fails to uncouple. Cole-Hersee Company, Boston, Mass.

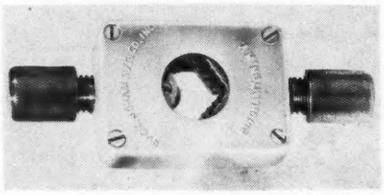
P25. CO Tester

This carbon monoxide tester is capable of indicating the presence of the gas in air from .001 to .10 per cent by volume. One squeeze of the suction bulb is recommended to obtain an indication of concentration in the range of .005 to .10. Greater sensitivity is obtained by increasing the number of aspirations. Heart of the tester is a re-

placeable indicator tube, containing a chemical which turns a certain shade of green depending upon the concentration of the carbon monoxide. This color is then compared with a revolving color scale which is mounted directly inside the detector tube and when matched indicates the per cent concentration. Mine Safety Appliances Co., Pittsburgh, Pa.

P26. Thread Restorer

A thread restorer, suited for reconditioning closely spaced studs and bolts completes a range of sizes which take care of all ASME and SAE standard threads from ¼ up to 4 in. diameter. With a swing of only 2 5/16 in., the adjustable cutting jaws can be fitted to any male thread of ¼ to 1 in. root diameter, either right- or left-hand. No



die sets are required for interchange for size or type of thread. The tool weighs only 1¼ lb. Buckingham Mfg. Co., Inc., Binghamton, N. Y.

P27. Lubricant Pump

Three models of an air-operated high pressure lubricant pump which will deliver lubricant from 25, 35 or 50 lb original containers, incorporate a new sealed-in air motor, guaranteed for 27 months. The motor requires no oiling and has an exclusive centered-valve design, with the air valve and related parts located between the air cylinder and pump tube. It weighs only 9 lb.

Known as the "711" models, all units are finished in gleaming oven-baked enamel and simulated hammered aluminum. Each has a hose assembly consisting of a Z-type swivel, six feet of high pressure hose with 20,000 lb pressure test and one year guarantee, and, control valve with adjustable single shot or continuous flow. Alemite Div. of Stewart-Warner Corp., Chicago, Ill.

P28. Body Tools

A new assortment of a hydraulic Pull-Ram and various pulling clamps is used with a hydraulic pump and hose. The new 1½-ton Pull-Ram weighs 4½ lb and has 1½ tons of power.

This SB-46 kit includes a Pull-Ram, chain grips, pull head and washers, fender clamps and body stretcher clamps. Blackhawk Mfg. Co., Milwaukee, Wis.

P29. Gasoline Heater

The automatic gasoline heater, Model UH47, with improved thermostatic control, operates independent of vehicle

engine and burns any type gasoline. Heater may be fueled direct from vehicle tank by electric pump or may be equipped with its own tank. Constant circulation of warm air is maintained by an electric blower fan. Controllable heat range is from 5000 to 15,000 BTU per hr. Hunter Mfg. Co., Cleveland, Ohio.

(Turn to next page, please)

New Products

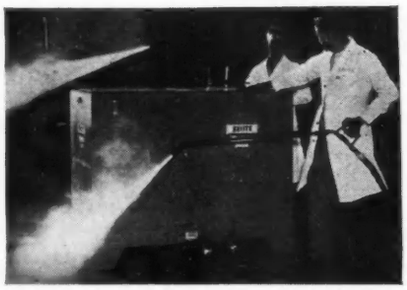
Continued from P. 51

P30. Heavy Duty Coil

A new heavy duty coil for trucks and buses is said to have an extremely low current draw, yet produces high voltage without sacrificing heat output, and develops a hot spark. The coil is oil-filled, waterproof, with an arc-resistant top and a die cast case, insulated. Model IC-706 for 6 volt systems, and IC-712 for 12 volt systems. The Echlin Mfg. Co., New Haven, Conn.

P31. Steam Cleaner

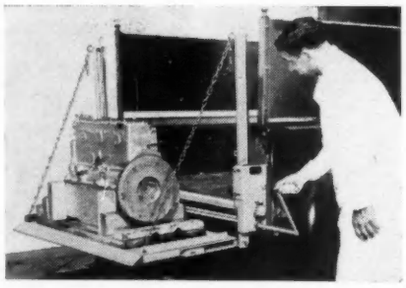
HD Model S steam cleaner has a rated capacity of 260 gal of solution vaporized per hr. This high capacity results from the "water wall," composed of 42 ft of tightly coiled ¾-in.



pipe located at the point of greatest heat radiation. Altogether, 330 ft of heavy-duty ¾-in. pipe is used in the water jacket. Stack temperature is reduced to approximately 400 deg F. Gas fired and oil fired models are available. Kelite Products, Inc., Los Angeles, Cal.

P32. Tailgate Loader

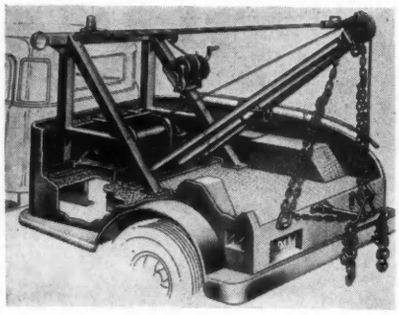
A tailgate loader for ½-, ¾- and 1-ton pickup trucks has a load capacity of 600 lb, loaded and raised by one man



with nine easy turns of a removable crank. All movable parts run on ball bearings and two strands of heavy roller chains that support the load have a breaking strength of 3600 lb apiece. The loader has a platform 28 x 48-in. and the load is held at any position with a ratchet. W. K. Vogel, The Ven Corp., Los Angeles, Calif.

P33. Power Wrecker

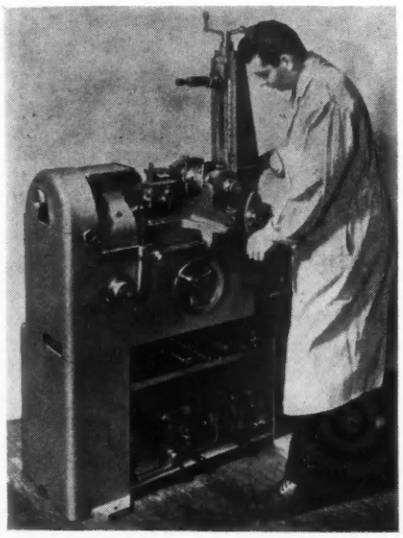
This Ashton extension boom power wrecker, in several sizes, features an all-welded steel A-frame, both a hand and a power winch, and an adjustable boom made of seamless steel tubing.



Booms are available with a 2½-, 3½-, 7½- or 10-ton rated capacity. The body is of streamlined design, all-welded steel, length 96 in., width 68 in. Remote controls for clutch, power take-off and throttle with "hold" adjustment are incorporated. Chart is available to enable selection of wrecker and truck size for maximum requirements. Welles Corp., Ltd., Windsor, Ontario, Canada.

P34. Pin Fitter

No. 232 automatic pin-fitting machine is designed for boring wrist-pin holes in piston and rods by centralizing from worn hole or bushing, boring piston-pin holes in con-rods to proper center dis-

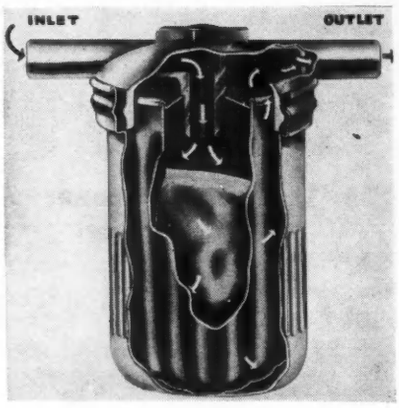


tance and parallel with large or bearing end, boring con-rods, large-end, babbitted type, parallel with wrist-pin hole, to proper center distances and boring large end of rod-forging to bring it back to size after proper preparation, locating from wrist-pin hole, or from sides of forging.

The unit has a piston capacity from 2 to 6 in. in diameter; capacity for wrist-pin holes in pistons from 11/16 to 2½ in. in diameter; capacity, large end of rod, up to 3½ in. in diameter—and small end of rod up to 2¼ in. in diameter. Van Norman Machine Tool Co., Springfield, Mass.

P35. Radiator Filter

This new radiator and water cleaner for cars, trucks and buses inhibits rust and corrosion, softens coolant water to stop scale deposits, and filters rust, scale and foreign particles from the coolant. A controlled amount of water flows continuously from the cooling sys-

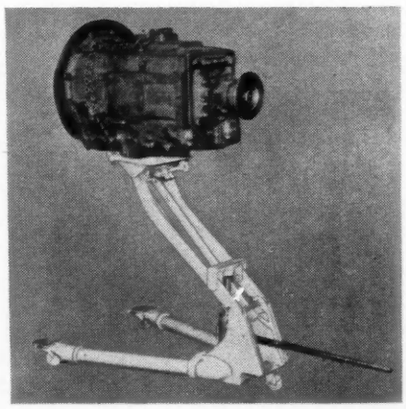


tem, through the unit. Water contacts the chemicals for softening and inhibiting and passes through the filtering media where all solids are removed.

Easy to install, cartridge in unit is easily changed. Fram Corp., Providence, R. I.

P36. Unit Lift

The new unit lift can be used as a floor model or can be converted to a 2-post hoist with use of a special stand. This new lift enables one man to handle all under-chassis parts. The cradle holds



unit securely, tilts 90 deg forward, 10 deg to the rear to permit spline and bolt-hole alignment and raises or lowers to bench height of 37 in. Lift is equipped with three heavy-duty casters. Power unit is a 5-ton hydraulic jack. Drum Jack Corp., Cleveland, Ohio.

(Turn to page 56, please)

MōPAR

TRADE MARK

MōPAR is the trade mark for parts and accessories factory-engineered and inspected by Chrysler Corporation for Plymouth, Dodge, De Soto and Chrysler cars and Dodge "*Job-Rated*" trucks.

Chrysler Motors Parts Corporation makes MōPAR parts available to you at Plymouth, Dodge, De Soto and Chrysler dealers everywhere.

Remember the name—MōPAR. It is our way of saying, "These parts are made right . . . fit right . . . work right!"

For complete satisfaction, always install MōPAR parts and accessories in all vehicles built by Chrysler Corporation.

You can get MōPAR parts from dealers FOR PLYMOUTH • DODGE • DE SOTO • CHRYSLER CARS • DODGE "*Job-Rated*" TRUCKS

. . . and from many garages and service stations

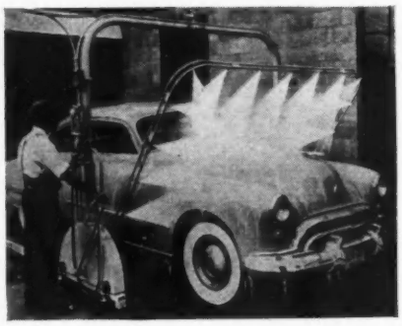
CHRYSLER MOTORS PARTS CORPORATION • DETROIT 31, MICH.

New Products

Continued from P. 52

P37. Car Washer

With the new Model 714 Wavewash portable automatic jet car washer one operator can wash 4 to 6 cars per hr. The swinging spray arm on Wavewash reaches all parts of the car with direct sprays. It is merely attached to a water



line where pressure is above 35 lbs. The unit is 9½ ft wide and 8 ft high. Phillips Pump & Tank Co., Cincinnati, Ohio.

P38. Bench Grinder

A new 6-in. grinder, ¼ hp and 1/3 hp sizes, termed the 600 Series, have extra clearance between the wheels and the motor frame which permits the grinding of large and odd shaped pieces. The motor frame is smaller in diameter than the grinder wheel. Features include capacitor start, capacitor run motor guaranteed against burnout for two years; full size ball bearings; and tool rests. The Baldor Electric Co., St. Louis, Mo.

P39. Exhaust System

An exhaust gas removal system for bay-type service areas is said to take smoke and fumes direct from the exhaust pipe to the out-of-doors without heat loss in the service bays, without the use of expensive blower and motor system.

Equipment necessary consists of a door plate, flexible hose, an adjustable adapter designed to permit the use of motor analyzers and a Ventura action nozzle. Gas removal is expedited by connecting an air hose to the needle valve by means of a quick coupling and turning on air. The National System of Garage Ventilation, Inc., Decatur, Ill.

P40. Fire Extinguisher

The fire extinguisher KD 622 is of the vaporizing double acting liquid pump type. It shoots stream up to 30 ft, effective for combating oil, gasoline and electrical fires. Quart capacity refills are available in cartons of six-qt cans. The fluid will not freeze at 50 deg below zero F, nor damage clothing or equipment. The unit is brass construction with bracket for mounting on all vehicles. Approved by Underwriters Laboratories, Inc. K-D Lamp Co., Cincinnati, Ohio.

P41. Air Compressors

Par Model 201 and S201 2-hp air compressors are single stage, low pressure, big volume, four-cyl units featuring fin type aftercooler, single or polyphase motor, 60 gal ASME tank, automatic unloader controller, pressure switch, check and safety valve. Par Model 201 delivers a larger volume of air where 150 lb maximum pressure is required and Par Model S201 at 100 lb maximum pressure. Model V51 is a ½-hp, single stage, two-cyl air compressor with vertical type ASME tank. Farm Model PG31 is a ¾-hp portable, gas engine unit with horizontal type tank. Lynch Corp., Par Compressor Div., Toledo, Ohio.

P42. Two-Way Radio

Two new RCA Fleetfone station equipments for fixed-station use are both designed for adjacent channel operation in the 30-50 megacycle band. The 70-watt unit consists of an RCA type CT-10A Transmitter and an RCA type CR-15A station receiver, each mounted on an individual chassis, housed with associated power supplies in a single 63-in. cabinet. The 250-watt unit consists of an RCA type CT-11A transmitter and an RCA type CR-15A station receiver, together with power supplies and a PA power supply unit, in a single 84-in. cabinet. Mobile Communications Section, RCA Engineering Products Dept., Camden, N. J.

P43. Thread Depth Gage

A new gage, No. 5059, designed to accurately measure tire tread depth

features a nickel plated barrel containing an aluminum indicator graduated in units of 1/32-in. It has a wide base which spans the tire tread, permitting the "needle point" to slide to tread depth, as indicator is depressed with finger. Dill Mfg. Co., Cleveland, Ohio.

Late Product Flashes

The **Tweco Products Co.** has just introduced a new product consisting of a "Lug-Set" block and punch to mechanically install the Tweco solder-type lugs and splicers, especially on welding cables.

New WIXITE cartridges, made by **Wix Accessories Corp.**, Gastonia, N. C., contains a resilient, non-felting depth filtrant resulting in better filter performance.

F. & B. Mfg. Co., Chicago, Ill., is now supplying five new Filko, free acting, vacuum-operated breaker plates for replacement in Auto-Lite and Delco distributors. In addition a new set of six tools for adjustment of contact points is being offered.

A new device, Detecto-Cell, which allows the driver to keep a constant check on the condition of his battery without leaving the driver's seat, is offered by the **Myriatron Corp.** of Pontiac, Mich.

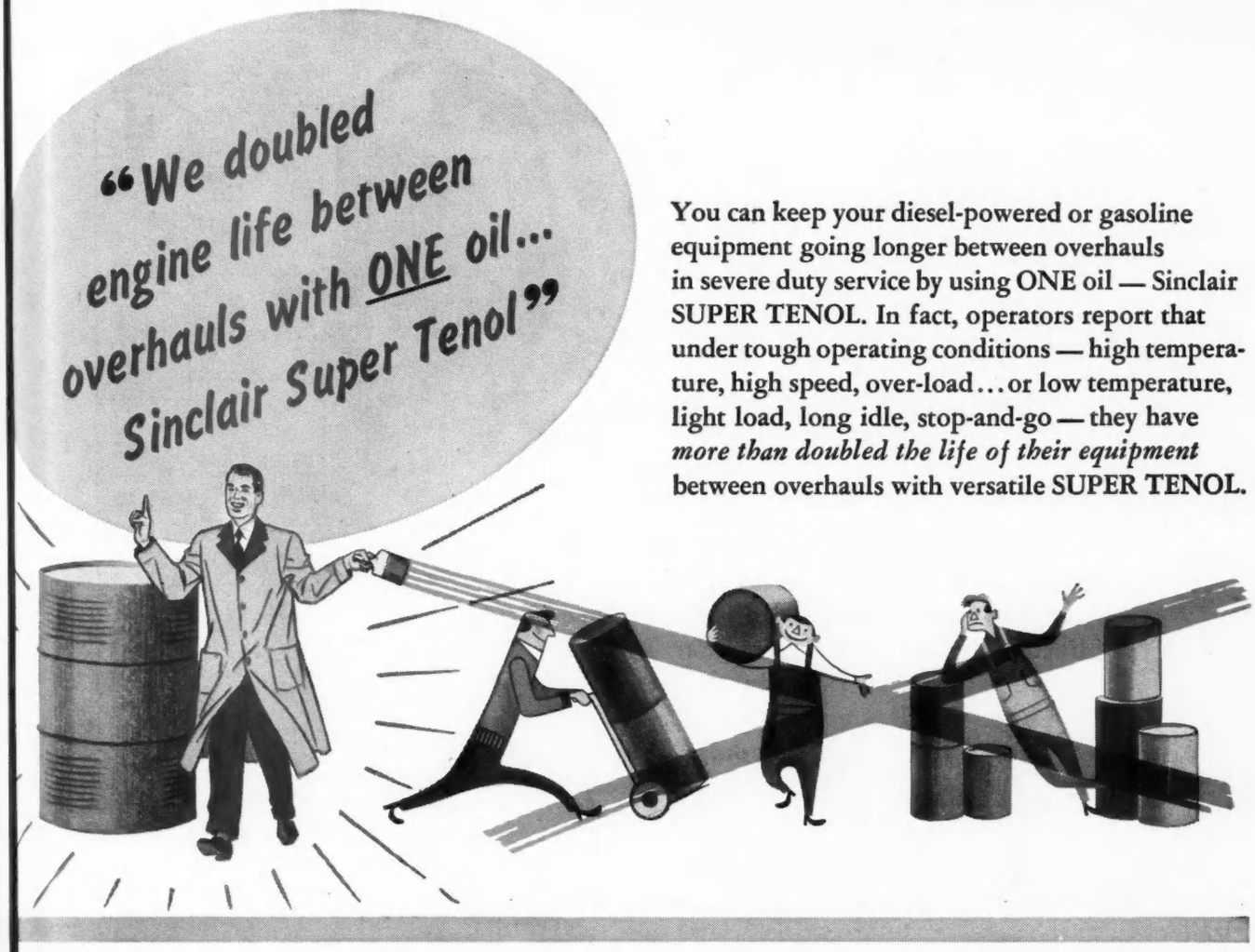
A new drill set, announced by the **Automotive Div. of Van Norman Co.**, Springfield, Mass., includes 8 carbon steel drills, 9/16 to 1 in. by 1/16ths. Known as "Silver & Deming," the drills have a ½ in. shank for use in ½ in. or larger electric drills.

The new Titan utility brush, manufactured by the **Flour City Brush Co.** of Minneapolis, Minn., built on a hard rubber block that cannot crack or deteriorate, has crimped nylon bristles available in three grades of stiffness.

Handsomely finished in grey enamel, the new line of rubber protected and rubber cushioned, both round and rectangular extension mirrors have been introduced by **R. E. Dietz Co.**, Syracuse, N. Y.

Custom accessory designed exclusively for late model Appleton and Lorraine Spotlights is a new side view mirror announced by **Appleton Electric Co.**, Chicago, Ill.

Addition of twenty single-hexagon (6-point) thin-wall socket wrenches to the **Proto** line has been announced by the **Plomb Tool Co.**, Los Angeles, Calif.



You can keep your diesel-powered or gasoline equipment going longer between overhauls in severe duty service by using ONE oil — Sinclair SUPER TENOL. In fact, operators report that under tough operating conditions — high temperature, high speed, over-load... or low temperature, light load, long idle, stop-and-go — they have *more than doubled the life of their equipment* between overhauls with versatile SUPER TENOL.

Consider how you can cut downtime and grease inventories by using ONE single grease for the complete lubrication job. Sinclair Litholine provides better lubrication than long-established specialized greases. And that means for *all* lubrication points — chassis, wheel bearings, water pumps, universal joints — in winter or summer, under all kinds of operating conditions. Litholine gives you —

1. Superior protective lubrication at *every* point.
2. No danger of costly misapplication.
3. Quicker servicing, less downtime.
4. Smaller grease inventories. One grease instead of from three to four.
5. Fewer dispensing units.
6. Less chance for contamination.
7. Simplified purchasing and distribution.
8. Less wastage.

Sinclair will gladly send you a folder describing demonstrations showing the superiority of Litholine over other greases.

SUPER TENOL AND LITHOLINE

Truck Specifications

Showing New Models and Revisions Since Last Issue

The specifications of new truck models and revisions in current models noted below have been received from truck manufacturers since publication of the Commercial Car Journal Truck Specifications Table in the October, 1950, issue. Readers are requested to make note of these changes. The complete Table will be included in the December, 1950 issue.

DATA SUPPLIED BY MANUFACTURERS AND TABULATED BY

COMMERCIAL CAR JOURNAL

Chevrolet

Two additional models have been added. The complete specifications can be found in the accompanying table.

Dodge

Maximum authorized tire size has been increased to 9.00/20 10 ply for the following models: B-2-JL, JAL, J, JA, JML, JMAL, JMA. For models B-2-KL, KAL, K, KA, KML, KMAL, KM, KMA, standard front and rear tires are 8.25/20.

Rear axle gear ratio in high available for "Y" model is 7.4. 6.4/8.37 ratio is also available for "YA" model.

Oshkosh

The chassis weight of Model W712-6x6 is changed to 17900 lb.

F.W.D.

The maximum brake horsepower for Models HR, HG, HRY and H6x6G is 130 bhp @ 3000 rpm. Transmission, rear axle and front axles for Models HA, HR and HG are of FWD's own make and all units are designated HA, HR and HG for the respective truck models. In addition the brake lining area and drum area for these three models is 473 and 836 sq-in. respectively.

Two new models have been added and complete specifications can be found in the accompanying table.

Marmon-Herrington

The total lining area on the service brakes on Models R5-4, R6-4, R4-4 and R5AC0E-4 should be 302 sq-in. On Models LD7-4 and R3-4 the lining area should be 178 and 188 sq-in. respectively.

The drum area on the service brakes of Models R5-4, R6-4, R4-4 and R5AC0E-4 should be 506 sq-in.

See October Issue Page 81

for Specifications of Other Models

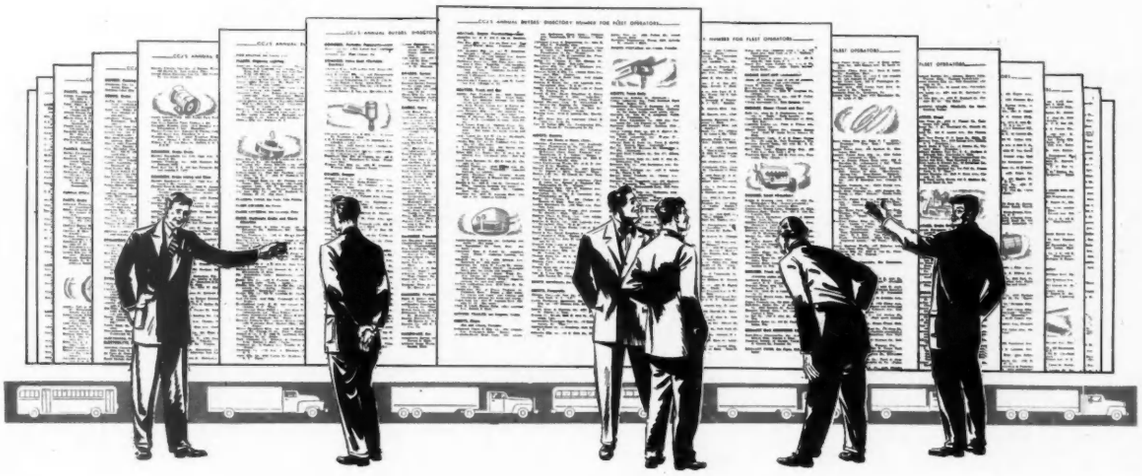
Line Number	MAKE AND MODEL	Chassis List Price	WHEEL-BASE: Minimum Standard	WHEEL-BASE: Maximum Standard	Gross Vehicle Weight for Normal Service	Chassis Weight (See definition)	TIRE SIZES: Standard Front and Rear	TIRE SIZES: D-dual rear S-single rear	TIRE SIZES: Maximum Authorized Tire Size (Duals unless noted)	ENGINE DETAILS: Make and Model	ENGINE DETAILS: No. of Cylinders, Bore and Stroke	ENGINE DETAILS: Displacement	ENGINE DETAILS: Comp. Ratio	ENGINE DETAILS: Torque lb. ft.	ENGINE DETAILS: Max. Brake H.P. at R.P.M. Given	ENGINE DETAILS: Main Bearings: Number Diameter and Length	Governor Standard	TRANS-MISSION: Make and Model	TRANS-MISSION: Forward Speeds	REAR AXLE: Make and Model	REAR AXLE: Gear and Type	REAR AXLE: Drive & Torque	REAR AXLE: Gear Ratio Range in High	FRONT AXLE: Make and Model	BRAKES: SERVICE: Make Location Type Operation	BRAKES: SERVICE: Lining Area	BRAKES: SERVICE: Drum Area	BRAKES: SERVICE: Drum Material	BRAKES: Hand Location Type	C-A Dimensions (Min. Std. W. B.)	FRAME: Side Rail Dimensions	FRAME: Type
1	Chevrolet ....TVS	.....	179	....	15000	4405▲	7.50/20D		9.00/20▲	O-Load Mas.	6-3⅜x3⅜	235	6.7	193	105-3600	4-⅜	Y Own	4 Own	4 Own	HyF	H	□-6.17	Own	O4IH	330	478	Co	21	102	8⅝x2⅞x¼	C
2	.....TS	.....	179	....	16000	4405▲	7.50/20D		9.00/20▲	O-Load Mas.	6-3⅜x3⅜	235	6.7	193	105-3600	4-⅜	Y Own	4 Own	4 Own	HyF	H	□-6.17	Own	O4IH	330	478	Co	21	102	8⅝x2⅞x¼	...
3	F.W.D. .....HAY	.....	132	168	.....	7945	9.00/20D		10.00/20	Wau 195 GKA	6-4¼x4¼	320	6.2	245	125-3200	4-2⅝x7¼	Y Own HAY	5 Own HAY	SF	H	6.6 -9.01	Own HAY	L41HV	473	836a	T4	79½	9x3x¼	T
4	.....HGY	.....	154	154	.....	8400	10.00/20D		10.00/20	Wau MZA	6-4¼x4¼	404	5.6	291	130-3000	7-2⅝x12½	Y Own HGY	5 Own HGY	SF	H	6.9 -9.01	Own HGY	L41HV	473	836a	T4	89¾	7⅛x2x¼	C

▲ 7.50/20 can be used on Front; with no decrease in GVW, when 8.25/20 are used on dual rear wheels.
‡‡ Diam.: Avg. Front, 2.6658; Front center 2.7168; Rear center, 2.7478; Total length, 5⅝.
▼ Includes spare tire, full fuel tank and cooling system.
♦ For only Single rear; Dual rear are 7.50/20
□ 2-speed axle available

COMMERCIAL CAR JOURNAL'S

Annual BUYERS' DIRECTORY Number

For Fleet Operators



INTRODUCTION . . .

For the second consecutive year Commercial Car Journal presents its Buyers' Directory for Fleet Operators. On the following pages hundreds of products, from "abrasives" to "wrist pins," are listed alphabetically and followed by names and addresses of the manufacturers who make them. While the primary purpose of the directory is to answer the perennial where-can-I-buy-it questions, it is hoped that it will also serve as a check list of parts, shop equipment, accessories and supplies considered necessary for efficient fleet maintenance and operation . . . In addition a new section has been added—a Directory of Associations of interest to both truck and bus fleetmen. It begins on page 83.

SCOPE . . .

To keep the directory within workable limits, product listings have been limited to *manufacturers* who distribute on a national scale. Exceptions include those few manufacturers who sell exclusively through national distributors and those whose products, because of their bulk (i.e. trucks, trailers, truck bodies) are frequently marketed on a regional basis. Names of local distributors can usually be obtained by writing direct to the manufacturer.

HOW TO USE . . .

In general, products are listed under the noun (i.e. LATHES, Bench). In some instances where noun and adjective are never separated (i.e. Spark Plug) the complete name is entered. To make the job of finding the product you want, easier, hundreds of cross references have been inserted . . . for a few specialized products and those classed as new developments, see "Specialized Products" at end of directory listing.

CONSULT THE ADVERTISERS' INDEX . . .

In fairness to all, no partiality has been shown to advertisers. More detailed information, however, concerning many of the products listed can be obtained by consulting the Advertisers' Index at the back of the issue and referring to manufacturers' advertisements. Complete details can be had on these and other products by using the post card inserted at page 50.

ABRASIVES (Cloth and Paper)—See SAND PAPER

ABSORBENTS, Oil and Grease (Floor)

Floor-Dry Co., 2314 Wycliff St., St. Paul 4, Minn.
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Oil-Dri Corp., 520 N. Michigan Ave., Chicago, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Kwixorb."
Speedi-Dri Corp., 210 W. Washington Square, Philadelphia 5, Pa.
Safety & Maintenance Co., 1 Wall St., New York 5, N. Y. "Sol-Speedi-Dri."
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Sol-Speedi-Dri."
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich. "Wyandotte Zorball."

ACCELEROMETERS

Vibration Specialty Co., 1534 Winter St., Philadelphia 2, Pa.

ACETYLENE, See Gas, Acetylene

ADJUSTERS, Tire Chain

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nauman, R. F., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Superior."
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal-Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Tingley-Reliance Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y.

AIR CLEANERS, See Cleaners, Air

ALARMS, Carbon Monoxide, See Indicators, Carbon Monoxide

ALARMS, Cargo Protection

Babaco Alarm Systems, Inc., 723 Washington St., New York 14, N. Y.

ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning

ALUMINUM (Sheet, Rod, Ingot and Shapes)

Ajax Metal Div. of H. Kramer & Co., 46 Richmond St., Philadelphia 23, Pa. (Ingot.)
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa."
American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. (Ingot.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Rod and ingot.)
Cleveland Electro Metals Co., 2591 W. 38th St., Cleveland 13, Ohio. "Cemco." (Shot, ingot and shapes.)
Fairmont Aluminum Co., Fairmont, W. Va. "Falco." (Sheet, coil and circles.)
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Frontier Bronze Corp., 4870 Packard Rd., Niagara Falls, N. Y. (Ingot.)
Hamden Smelting Co., State & Edmund Sts., New Haven, Conn. "USA." (Ingot.)
North American Smelting Co., Marine Terminal, Wilmington, Del. (Ingot.)
Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif. (Sheet, plate, coils, circles, billets, pig, ingot, rod, bar and wire)
Reynolds Metals Co., Aluminum Div., 2500 S. Third St., Louisville 1, Ky.
U. S. Reductoin Co., Melville & Chicago Aves., East Chicago, Ind. "Usco." (Ingot.)

AMMETERS, Instrument Board

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Hoyt Electrical nstrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegage."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Simpson Electric Co., Div. of American Gage & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine and Metals, Inc., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Cambridge Instrument Co., Inc., Ossining-on-Hudson, N. Y.
Commercial Research Laboratories, Inc., 16 Bartlett St., Detroit 3, Mich.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Mixture Master," "Electro-Twin."
Engelhard, Inc., Charles, 900 Lassaic Ave., East Newark, N. J. "Exhaustalyser."
Gale Hall Engrg., Inc., 107 Northampton St., Boston 18. "Checkometer."
Gow-Mac Instrument Co., 22 Lawrence St., Newark 5, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Permutit Co., 330 W. 42nd St., New York, N. Y. "Ranarex."
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.

ANALYZERS, (Engine and Electrical Equipment)

Actane Chemical Co., Philadelphia 8, Pa.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Motor Tuner," "Motor Tester."
Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Cambridge Instrument Co., Inc., Ossining-on-Hudson, N. Y. (Engine indicators, exhaust gas testers.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Gale Hall Engrg., Inc., 107 Northampton St., Boston 18. "Checkometer."
Hygrade Products Co., 35-35 35th St., Long Island City, N. Y. "Vac-O-Scope."
Kent-Moore Organization, nc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors. Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.

ANTI-FREEZE, Cooling System

Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa. "Cleanola."
Cliffs Dow Chemical Co., Wright St., Marquette, Mich. "Sentinel."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Ajax," "Frost Chek," "Peak," "Plus," "Nor'way."
duPont de Nemours & Co., E. I., Polychemical Dept., Zerone & Zerex Anti-Freeze Section, Wilmington 98, Del. "Zerone," "Zerex."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Mirrolike Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y. "Never-Freeze."
Monsanto Chemical Co., Merrimac Div., Everett Station, Boston 19, Mass. "Nealco."
National Carbon Div. Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. "Prestone," "Trek."
Porte Mfg. Co., 2930 Fulton St., Brooklyn 7, N. Y. "Compass."
Publickers Industries Inc., 1429 Walnut St., Philadelphia 2, Pa. "Thermo."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Rand-Zone."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Freezone."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Speco," "Freezex," "Freez-Rem."
United Distillers of America, Inc., 350 Fifth Ave., New York 1, N. Y. "Saf-Tee."
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Super-Pyro."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

ANTI-FREEZE, Gasoline Line

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Pep."
Casite Corp., Hastings, Mich. "Drout."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'way Dry-Ex."
Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. "Cristy Drygas."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
duPont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del. "Gas Guard."
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Zorbit."
Lion Chemical Co., 3900 N. Pulaski Ave., Chicago 41, Ill. "Gasone."
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Startrite."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."
Porte Mfg. Co., 2930 Fulton St., Brooklyn 7, N. Y. "Gasec."
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md. "De-Icer."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Aqua-Ex."
Winkenweder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill. "Start."

ARMATURES

Arrow Armatures Co., 15 Fordham Rd., Boston 39, Mass. (Rewinds.)
Carty Electric & Armature Service, Inc., 1608 14th St., N. W., Washington, D. C.
General Armature & Mfg. Co., Mill Hall, Pa.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.

ARBOR PRESSES, See Presses, Arbor

ARMS, Breaker

Niehoff & Co., C. E. 4925 W. Lawrence Ave., Chicago 30, Ill.
Shurhit Products, Inc., Waukegan, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

AXLE STRAIGHTENERS, See Straighteners, Axle. (Also Gages, Wheel and Axle Aligning.)

AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Detroit Devel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Spencer Mfg. Co., Spencer, Ohio.
Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.
U. S. Axle Co., Inc., Water St., Pottstown, Pa.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
York Axle & Forge Co., Loucks Mill Rd., York, Pa. "Bilt-Well"; "Foreman" (Sole distributors, Foreman, Inc., 2119 S. Wabash Ave., Chicago, Ill.

AXLE SUSPENSION UNITS, for Trailers

Callahan Engrg. Co., 1100 Mateo St., Los Angeles 21, Calif.
Edwards Trailer & Body Co., Div. of Edwards Iron Works, Inc., 2901 S. Main St., South Bend 23, Ind.
Fayette Mfg. Co., Fayette, Ohio.
Hammer Blow Tool Co., 602½ Third St., Wausau. Wis.
Hendrick Mfg. Co., W. Cedar St., Poughkeepsie, N. Y.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons (Chicago suburb), Ill. "Hendrickson Tandem."
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Kingham Trailer Co., Inc., 15th & Hill Sts., Louisville, Ky.
Liggett Spring & Axle Co., Monongahela, Pa. "Wearever" (Utility, sole distributors, Liggett Supply & Equipment Co., Monongahela, Pa.)
Neway Equipment Co., 2425 Henry St., Box 425, Muskegon, Mich. (Tandem unit.)
Pointer-Willamette Co., 238 N.E. Oregon St., Portland, Ore.
Reynolds Mfg. Co., 600 Prospect Ave., Springfield, Mo. "Reyco Tandem."
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. 2nd St., Louisville 8, Ky.
Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)
Steel Products Co., Inc., Box 1007, Savannah, Ga. "Great Dane."
Trailmobile Co., 31st & Robertson Ave., Cincinnati 9, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Gravity Springs."
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton 5, Ohio. "Hoobler."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif. (Licensors.)

AXLE UNITS, Third, for Trucks

Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
Baumis Mfg. Corp., Townsend, Mass. (Sole distributors, Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio.)
Callahan Engineering Co., 1100 Mateo St., Los Angeles 21, Calif.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif. (Chain drive.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. "Thornton Four-Rear Wheel Drive." (Power on four wheels; also chain drive; also "Load Booster.")
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif. "Fabco."
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Rockford Station), Detroit 19, Mich.
Hendrick Mfg. Co., W. Cedar St., Poughkeepsie, N. Y. "Guilder."
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyon, Ill.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
Neway Equipment Co., 2425 Henry St., Box 425, Muskegon, Mich.
Six Wheels Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)
Thornton Four-Rear Wheel Drive—See Detroit Automotive Products Corp.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Gravity Springs," also "Truxmore." (Sole distributors, Truckstell, Inc., Union Commerce Bldg., Cleveland, Ohio.)
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J. (Also chain and sprocket drive.)
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Warford Corp., 44 Whitehall St., New York, N. Y. (For Ford and Chevrolet trucks.)
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.

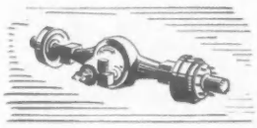
AXLES, Front

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio. (Truck.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

AXLES, Front Drive

American-Coleman Co., The, Omaha, Neb. (For conversions.)
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Rear



Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 31, Cal.
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer-Salisbury."
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Rear (Two Speed)

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Trailer

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. (House.)
Dorsey Trailers, Inc., Elba, Ala.
Fayette Mfg. Co., Fayette, Ohio.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wise. "Torq-less."
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Liggett Spring & Axle Co., Monongahela, Pa.
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Spencer Mfg. Co., Spencer, Ohio.
Spencer Trailer Co., Augusta, Kans. "Spencer Trail-Lite."
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio. "Frazier."
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
United Mfg. Co., 30 Interstate St., Bedford, Ohio. "Caravan."

BABBITTING MACHINES, See Machines, Babbitting

BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. "Visubalancer," "John Bean."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Gibbs Div., Geo. W. Borg Corp., Delavan, Wis. "Borg."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. "Balastat."
Lempco Products, Inc., 5490 Dunham Road, Bedford, Ohio. "Vibrascope."
Loney Co., Harley C., 16883 Wyoming Ave., Detroit 21, Mich. "L&H."
Manbee Equip Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Static.)
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill. (Electronic.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

BARS, Towing (One Man Type)

Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Pilot Mfg. Co., Battle Creek, Mich. "Tow Guide."
Tow-Master Corp., 1111 N. Clark St., Chicago 10, Ill.
Wood-Williams-Copp Mfg. Co., 5239 N. Michigan Ave., Ypsilanti, Mich. "Red Arrow."

BATTERIES, Dry

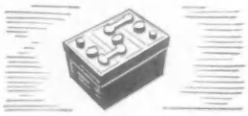
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
Burgess Battery Co., Freeport, Ill.
General Dry Batteries, Inc., 131000 Athens Ave., W. Cleveland, Ohio.
Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
National Carbon Div., Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y. "Eveready."
Olin Industries, Inc., Electrical Div., 275 Winchester Ave., New Haven 4, Conn.
Ray-O-Vac Co., 212 E. Washington St., Madison 3, Wis.
Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio. (Flashlight.)
United States Electrical Mfg. Corp., 222 W. 14th St., New York 11, N. Y. "Usalite."
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Winchester Repeating Arms Co., Div. of Olin Industries, Inc., 275 Winchester Ave., New Haven 4, Conn.

BATTERIES, Storage

American Battery Co., 1520 McGavock St., Nashville 3, Tenn.
Am-Plus Storage Battery Co., 429 W. Superior St., Chicago 10, Ill.

BATTERIES, Storage—cont.

Atlantic Battery Co., 59 Prentiss St., Boston 20, Mass.
Auto-Lite Battery Corp. (Sub. of Electric Auto-Lite Co.), Toledo 1, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
C & D Batteries, Inc., Conshohocken, Pa.
Crescent Battery & Light Co., 819 Magazine St., New Orleans 12, La.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Ebert-Allen Battery Co., 2225 Main St., Joplin, Mo. "Cargo," "Major."
Edison, Inc., Thomas A., Automotive Div., West Orange, N. J.
Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa. "Exide."
The Firestone Tire & Rubber Co., Akron 17, Ohio.
Geidel Battery Mfg. Co., 3393 Bigelow Blvd., Pittsburgh 19, Pa.
General Lead Batteries Co., 196 W. Railway Ave., Paterson, N. J. "Titan," "Durex."
Gibbs Battery Co., Corydon, Iowa. "Gibbs," "G-B."
Gill Electric Mfg. Corp., 201 E. Citrus Ave., Redlands, Cal.
Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Glasstex."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. "YKL," "PowR SavR-T.M.'s."
Gould-National Batteries, Inc., St. Paul 1, Minn. "Kathanode."
Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Great Northern Battery Co., 130 W. Pittsburgh Ave., Milwaukee 4, Wis.
Hobbs Battery Co., 1228 Folsom St., San Francisco 3, Calif. "Gold-Seal," "Triple A."
Kathanode Corp., 1201 First National Bank Bldg., St. Paul 1, Minn.
Kelly-Springfield Tire Co., Cumberland, Md.
Laher Battery Products Corp., 2615 Magnolia St., Oakland, Cal.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Lyons Storage Battery Co., Hamburg, Pa.
Marlatt Battery & Mfg. Co., 1112 Industrial Ave., Danville, Ill.
Monark Battery Co., 6501 W. Grand Ave., Chicago, Ill. "Invader," "Monark," "Majestic."
Multnomah Battery Mfg. Co., 1901 N. W. Wilson St., Portland 9, Ore.
National Battery Co., First National Bank Bldg., St. Paul 1, Minn.
Patterson Corp., 437 Park Ave., N.W., New Philadelphia, Ohio. "Bowers," "Penn."
Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.
Perrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass. "Perrine Polar Bear."



Perry Batteries, 3102 Corunna Road, Flint 3, Mich.
Prest-O-Lite Battery Co., Toledo 1, Ohio.
Price Battery Corp., Hamburg, Pa., "Thor."
Prime Battery Mfg. Co., 2001 W. 8th St., Anderson, Ind.
Reading Batteries, Inc., Box 916, Reading, Pa. "Rebat."
Red-Bar Battery Co., 206 S. Orchard Ave., Dayton, Ohio.
Red Diamond Battery Mfg. Co., 1415 N. Adams St., Peoria 3, Ill.
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Marathon," "Packard," "Reliance."
Solar Corp., 1000 W. Bruce St., Milwaukee 4, Wis.
Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex. "Reliable," "Star," "Stelco," "Ful-O-Pep," "Comet."
Surrette Storage Battery Co., Jefferson Ave., Salem, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill. "Universal," "Coliseum."
Vesta Consolidated, Inc., First National Bank Bldg., St. Paul 1, Minn.
Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill.
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn. "Cable."
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis. "Wisco."
Witherbee Storage Battery Co., Hamburg, Pa.

BEARINGS, Ball

Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 39, Ill. (Thrust.)
Ahlberg Bearing Co., 3025 W. 47th St., Chicago 32, Ill. "CJB."
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Bearings Industry Co., 311 W. 56th St., New York 19, N. Y. ("BIC"; "R & M." [Imported.])
Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill. (Assemblies.)
Chefford Master Mfg. Co., Fairfield, Ill. "CMF," "Lubro-Life."
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Fafnir Bearing Co., 37 Booth St., New Britain, Conn.
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 3, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hoover Ball & Bearing Co., Ann Arbor, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
L & S Bearing Co., 1015 N. Broadway, Oklahoma City, Okla.
McGill Mfg. Co., 259 Indiana Ave., Valparaiso, Ind.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16 Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. "M-R-C." (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)
Matthews Mfg. Co., 104 Gold St., Worcester 3, Mass. (Unground.)
New Departure Div. General Motors Corp., Bristol, Conn.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill. "Sealmaster."

BEARINGS, Clutch Throwout

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Aetna Ball & Roller Bearings Co., 4600 Schubert Ave., Chicago 39, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)
Andrew-Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill. "A.T.B."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Chefford Master Mfg. Co., Fairfield, Ill. "Lubro-Life."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 3, Ohio.
L & S Bearing Co., 1015 N. Broadway, Oklahoma City, Okla.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Perfection Gear Co., 152nd St. & Viscennes Ave., Harvey, Ill.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
Randall Graphite Bearings, Inc., 609 W. Lake St., Chicago 6, Ill. (For Chevrolet and Oldsmobile cars.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

BEARING LEAK DETECTORS, See Testers, Bearing Wear

BEARINGS, Needle

Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Torrington Co., 56 Field St., Torrington, Conn.

BEARINGS, Roller

Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 39, Ill.
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Industry Co., 311 W. 56th St., New York 19, N. Y. ("BIC"; "R & M." Imported.)
Bower Roller Bearing Co., Hart & Goethe Aves., Detroit 14, Mich.
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hyatt Bearings Div., General Motors Corp., Harrison, N. J.
Industrial Engineering Co., Island Rd. & Suffolk Ave., Philadelphia 42, Pa.
International Parts Corpj., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
McGill Mfg. Co., 259 Indiana Ave., Valparaiso, Ind.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Norma-Hoffmann Bearing Corp., Hamilton, Ave., Stamford, Conn.
Orange Roller Bearing Co., 557 Main St., Orange, N. J.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
Roller Bearing Co. of America, Whitehead Rd., Trenton, N. J. "20th Century," "R B C," "Cyclops."
Rollway Bearing Co., 541 Seymour St., Syracuse, N. Y.
SKF Industries, Inc., Front St., & Erie Ave., Philadelphia 32, Pa.
Timken Roller Bearing Co., 1835 Dueber Ave., S. W., Canton 6, Ohio.
Torrington Co., 56 Field St., Torrington, Conn.
Tyson Bearing Corp., Oberlin & Thomas Aves., Massillon, Ohio.

BEARINGS and BUSHINGS, Bronze-Backed

American Bearing Corp., 429 S. Harding St., Indianapolis, Ind.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Federal-Mogul Corp., Western Mfg. Div., 250-14th St., San Francisco, Calif. "F.M."
Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Formetal Div., Federal-Mogul Corp., 6540 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif.

BEARINGS and BUSHINGS, Die Cast, Babbitt, etc.

Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.

Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Cal. "F.M.."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay, Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. ((Bearings.)
Mallory & Co.,. P. R., 3029 E. Washington St., Indianapolis, Ind.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa. "Tubeloy." (Bearings.)
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., SanFrancisco, Calif.

BEARINGS and BUSHINGS, Self-Aligning

National Molded Products, Inc., 40-42 S. St., Marys St., St. Marys, Pa. (Bearings.)
Orange Roller Bearing Co., 557 Main St., Orange, N. J.

BEARINGS and BUSHINGS, Steel-Backed

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum lined, semi-finished.)
American Bearing Corp., 429 S. Harding St., Indianapolis, Ind. (Babbitt lined.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio. "Clevite 77," "Bimetal," "Trimetal."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth.'
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Bearings.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
Green Line Co., 1939 E. 61st St., Cleveland 3, Ohio. (Babbitt lined bushings.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Formetal Div., Federal-Mogul Corp.. 6540 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Bearings.)
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Engine bearings.)

BELTS, FAN

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Asbestos Mfg Co., E. Sabine St., Huntington, Ind. "Amco."
Atlas Asbestos Co., North Wales, Pa. "Bodygard."
Boston Woven Hose & Rubber Co., P. O. Box 101, Boston 3, Mass. "Bull Dog."
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., (Tacony), Philadelphia 35, Pa.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Longlife."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Holfast Rubber Co., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Hope Webbing Co., Providence, R. I.
Kelly-Springfield Tire Co., Cumberland, Md.
Lee Rubber & Tire Corp., Conshocken, Pa.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper," "Miracle."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

BENCH DRILLS, See Drill Presses

BENDERS, Tube

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Leonard Precision Products Co., Garden Grove, Calif. "Leonard-Douglas."
Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "Chicago." (Hand and hydraulic.)
O'Neill-Irvin Mfg Co., Lake City, Minn. "Di-Arco."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Republic Mfg. Co., 1930 W. 77 St., Cleveland 2, Ohio. (Hand and bench.)
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

BINDERS, See Load Holders

BINS, Parts Storage

Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Cal.
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Borroughs Mfg. Co., 3002 N. Burdick St., Kalamazoo, Mich. "Flexi-Bins."
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. "Add-A-Bin."
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Fort Steuben Metal Products Co., Follansbee, W. Va.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "F G M." (Steel or aluminum.)
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Hope Metal Products Co., 1505 Rockwell Ave., Cleveland 14, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Manufacturing Equip. & Eng. Co., 553 Waverly St., Framingham, Mass. "Meeco."
Neiman Steel Equipment Co., 106 N. Third St., Philadelphia 6, Pa.
Red Tiger Products, Inc., 20 N. Wacker Drive, Chicago 6, Ill.
Renie Metal Products Corp., 807 Bowman St., Mansfield, Ohio. "Remco."
Standard Steel Equipment Co., 117-20 14th Rd., College Point, L. I., N. Y. "Stansteel."
Star Mfg. Co., P. O. Box 618, Kansas City, Mo. "Starbilt."

BLADES, Saw (Band)

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass. "Lenox."
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Diamond Saw Works, Inc., 260 Court St., Buffalo 2, N. Y. "Sterling."
Disston & Sons, Henry, Tacony, Philadelphia 35, Pa.
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Millers Falls Co., Greenfield, Mass. "Universal."
Ohlen-Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Sparton Saw Works, Inc., 152 Fisk Ave., Springfield 7, Mass.
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

BLADES, Saw (Circular)

Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Chicago Saw Works, Inc., 5036 Wentworth Ave., Chicago 9, Ill.
Circular Tool Co., 765 Allens Ave., Providence, R. I. "Circle R."
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio.
Disston & Sons, Henry, Tacony, Philadelphia 35, Pa.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
National Tool Co., W. 112th St. & Madison Ave., Cleveland 2, Ohio. "National-Clevcland."
Ohlen- Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Simmonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

BLEEDERS, Hydraulic Brake

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Eis Automotive Corp., Middletown, Conn.
Gray Co., 60 11th Ave., N.E., Minneapolis 13, Minn. "Graco Gun-Fil."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BLUE, Mechanics'

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's" "Flare."
Durkee-Atwood Co., 215 Seventh St., N.E., Minneapolis 13, Minn.
Dykem Co., 2303M N. 11th St., St Louis 6, Mo.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Permatex Co., 1720 Ave. Y., Brooklyn 29, N. Y.
Van Cleef Bros., Inc., 7800 Woodlawn Ave., Chicago 19, Ill. "Dutch Brand."

BODIES, Ambulance and Funeral

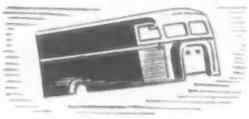
Eureka Co., 312 W. First St., Rock Falls, Ill.
Franklin Body & Equipment Corp., 616 Franklin Ave., Brooklyn, N. Y.
Hesse & Eisenhardt Co., Blue Ash Ave., Rossmoyne, Ohio.
Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio.
Miller Co., A. J., Bellefontaine, Ohio.
National Body Mfg. Co., Knightstown, Ind.
Roehlk Spring and Body Co., 417 S. 15th St., St. Louis 3, Mo.
Shop of Siebert, Inc., 614 Southard Ave., Toledo, Ohio.

BODIES, Ambulance and Funeral—cont.

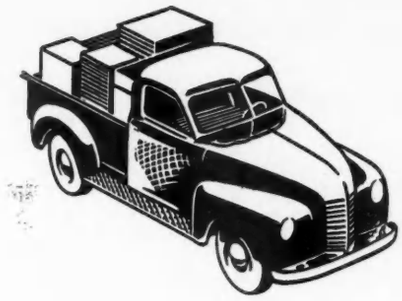
Stewart Truck Bodies, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y.
Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio.

BODIES, Commercial

Acme Body Works, 1314 N. Meade St., Appleton, Wis.
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.
Aluminum Body Corp., 4601 S. Soto St., Vernon 11, Calif.
American Body & Equipment Co., 1411 Charlotte St., Kansas City 6, Mo.
American Body & Equipment Co., P. O. Box 3107, Dallas 1, Tex.
American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.
American Coach & Body Co. See McCabe-Powers.
American Fire Apparatus Co., 44 E. Hall St., Battle Creek 10, Mich. (Fire apparatus.)
American Truck & Body Co., Martinsville, Va. "Pack-Haulers."
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Arkansas Machine Specialty Co., Hope, Ark. (Bottlers'.)
Armstrong-Johnson Mfg. Co., 97 N. Washington Ave., Columbus 15, Ohio. (Van; also "Met-L-Wood" [licensees].
Artisan Products, Inc., 3490 W. 140th St., Cleveland 11, Ohio.
Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Atlas Body Works, 147 McKinley Ave., Bridgeport 6, Conn.
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis.
Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Ateco."
Badger Body Mfg. Co., 2719 Cuming St., Omaha, Neb. (Combination grain and stock.)
Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va. (Also public utility.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.
Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.
Barry & Baily Co., 2419 N. 27th St., Philadelphia 32, Pa.
Batavia Body Co., 5 W. Wilson St., Batavia, Ill. (Refrigerator.)
Baxter Co., 1610 W. Michigan Ave., Duluth 2, Minn.
Belgrade Wagon Works, Cambria & Belgrade Sts., Philadelphia 34, Pa.
Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City, N. J. (Refrigerator.)
Black & Sons, Inc., Adam, 300 Tonnele Ave., Jersey City, N. J.
Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
Bolick Sons Co., Jerome, Conover, N. C.
Born & Sons, Herman, 219 N. Fremont Ave., Baltimore 1, Md.
Boyertown Auto Body Works, Inc., Third & Walnut Sts., Boyertown, Pa.
Brandt, Inc., Charles T., Body Div., 201 N. Haven St., Baltimore 24, Md.
Brown Bodies, Inc., 122 E. Walnut St., Des Moines, Iowa.
Brumbaugh Body Co., 100 Plank Rd., Altoona, Pa.
Budd Co., Automotive Body Div., 2450 Hunting Park Ave., Philadelphia 32, Pa.
California Body & Trailer Mfrs., 180 12th St., San Francisco 3, Calif.
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.
Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa.
Chain Belt Co., 1733 W. Bruce St., Milwaukee 4, Wis. "Rex Motor-Mixer." (Ready mixed concrete.)
Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
Clark Co., B. M., Union, Maine.
Clayson-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill.
Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J. (Also stake.)
Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio. Utility bodies for line construction.
Commercial Sales Co. Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.
Cook & Co., Hazlehurst, Ga. (Armored.)
Corbitt Co., Henderson, N. C.
Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J. (Armored.)
Crown Steel Products Co., Orrville, Conn. (Package delivery; sole distributors, Utility Truck Corp., 603 W. 23 St., N. Y. 11, N. Y.)
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
DeKalb Commercial Body Co., 229 Garden St., DeKalb, Ill. (Stake, milk delivery and van.)
Delphi Body Works, 311 S. Washington St., Delphi, Ind. (Also public utility.)
Dorsey Trailers, Inc., Elba, Ala.
Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J.
Dura-Bilt Body Co., 367 Mystic Ave., Medford 55, Mass.
Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. (Utility line construction.)
Edwards Trailer & Body Co. Div. of Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind.
Engineering and Research Corp., Riverdale, Md. "Erco."
Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C.
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Public utility.)
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex.
Fly & Harwood, 300 Madison Ave., Memphis 1, Tenn.
Franklin Auto Body & Equipment Corp.; 616 Franklin Ave., Brooklyn, N. Y.
G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Tex.
General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo.
Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.
Gertenslager Co., Wooster, Ohio. (Custom-made.)



Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa. (Farm and City Stake.)
Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C. (Glass industry, etc.)
Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind.
Glasier Body Co., 391 Adams St., Newark 5, N. J.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio.
Hackney Bros. Body Co., Goldsboro St., Wilson, N. C. (Refrigerator and dairy.)
Halsey Machine & Mfg. Co., 131 Arrowhead Ave., San Bernardino, Calif. (Bottling and oil.)
Hayes Mfg. Corp., 551 Seventh St., N.W., Grand Rapids 2, Mich.
Hercules-Campbell Body Co., Tarrytown, N. Y.
Hercules Mfg. Co., 1501 W. Franklin St., Evansville 10, Ind.
Hercules Steel Products Co., Box 477, Galion, Ohio.
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Hesse Carriage Co., 1720 Cherry St., Kansas City, Mo.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis. (Public utility)
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio. (Insulated & refrigerated.)
Hoiby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
Hubbard Mfg. Co., Farmland, Ind. (Service car.)
Hughes-Keenan Corp., Burkett Body Div., Delaware, Ohio.
Indiana Body Co., 615 S. H St., Richmond, Ind.
Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
Jefferson Body Co., 1711-3rd Ave. S., Birmingham 3, Ala.
Jensen's Body Shop, Phillips, Wis.
Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.
Kammer Body Corp., 150 Beaver St., Jamaica 4, N. Y.
Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill. (Grain, live stock.)
Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.
Kentucky Mfg. Co., Third & K Sts., Louisville 8, Ky.
Ketter Truck Bodies, Inc., Third & Ellison Ave., Ironton, Ohio. "Markette."
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Wis.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Keystone Wagon Works, Inc., Second & Norris Sts., Philadelphia 22, Pa. (Refrigerator.)
Kiley Co., James A., 15 Linwood St., Somerville, Mass. (Public utility.)
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K & B." (Stake.)
Knapheide Mfg. Co., Quincy, Ill. (Grain, livestock and van.)
Kneuer & Sons, Inc., M. J., 126 Van Buren St., Newark 5, N. J.
Koch & Son Mfg. Co., 200 Wilson Ave., N. E., St. Cloud, Minn.
Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.
Lacey & Sons Co., W. F., 54 Mystic Ave., Medford 55, Mass.
Lang Co., 267 W. First South St., Salt Lake City 9, Utah.
Love Wagon Co., Durant, Mich.
Los Angeles Automotive Works, 1020 Towne Ave., Los Angeles, Calif. (Refrigerator.)
Lu-Met, Inc., 530 E. 12th St., Cincinnati 10, Ohio.
McAvoy & Son, Inc., Peter, 30 Garden St., New Rochelle, N. Y.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers," "Service Master" and "Powers"; "Power-American." (Public utility.)
MacDonald Truck & Mfg. Div. Peterbilt Motors Inc., 106th St. & McArthur Blvd., Oakland, Calif. (Stake.)
Mahle Auto Body Co., 370 E. Eighth St., St. Paul 1, Minn.
Manchester Truck Body Builders, N. Turner St., Manchester, N. H.
Mason Mfg. Co., 31st St. & Warwick Ave., Newport News, Va.
Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.
Mellinger Lumber, Inc., 16 Madison St., Leetonia, Ohio.
Metal Auto Parts Co., Chase & Henry Sts., Indianapolis 7, Ind.
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. (Refrigerator.)
Mickey Body Co., W. F., 105 Perry St., High Point, N. C.
Mid-State Body Co., Waterloo, N. Y.
Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill. "Leader," Mid-West." (Van, panel and stake.)
Midwest Works, Inc., W. on Highway 54, Augusta, Kans. "Augusta."
Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.
Miller Trailers, Inc., 708 Third St., W., Bradenton, Fla.
Millington Truck Body Co., 8440 N. State St., Millington, Mich. (Insulated, milk; also stake.)
Modern Auto Body Builders Co., 252 Johnson Ave., Brooklyn 6, N. Y. (Also armored.)
Mohawk Metal Products Co., Frankfort, N. Y. (Bottler's and van.)
Moline Body Co., 222 52nd St., Moline, Ill.
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. (Stake bodies.)
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier Urban." (Parcel delivery and frequent stop.)
Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Service and utility.) "Carry-All."
Morse Body Mfg. Co., 69 Howard St., Watertown, Mass.
Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator.)
Nabors Co., W. C., Mansfield, La.
National Steel Products Co., 1611 Crystal Ave., Kansas City 3, Mo.
New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.
Niederhut Carriage Co., 3560 Walnut St., Denver 5, Colo.
Nogues Body Co., 1954 S. Los Angeles St., Los Angeles 11, Cal.
Novelty Carriage Works, 815 Second Ave., Spokane 8, Wash.
Ohio Body Mfg. Co., New London, Ohio.
Olsen & Son, R. P., 920 N. 24th St., Omaha, Neb.
Olson Corp., J. B. E., 2059 Coney Island Ave., Brooklyn 23, N. Y. "Kurb-Side." (Package delivery for Chevrolet chassis; "Kargo-King" van.)



On Any Truck Overloads Call for Greater Power Brake Capacity

For Every Make and Model from the *Lightest* to the LARGEST

Greater braking efficiency means shorter, smoother stops at any speed, with any load.

Extra braking control means better schedules with faster road speeds—less time wasted slowing down.

Added brake power allows shorter application of brakes, assures longer lining and drum life.

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Bendix HYDROVAC

WORLD'S MOST WIDELY USED POWER BRAKE

BECAUSE IT'S *"Load Rated"!*

Bendix
PRODUCTS DIVISION
SOUTH BEND
INDIANA

No matter how you look at it, *overloads* call for added braking efficiency—and that means Bendix* Hydrovac*. Your Bendix Vacuum Power dealer can give you sound reasons why Bendix Hydrovac assures better performance on *any* job, regardless of the size of your trucks. He knows what he's talking about too—Hydrovac is the world's most widely used power brake. See him soon, get the facts, and we believe you'll install Bendix "Load Rated" Power Brakes. *REG. U. S. PAT. OFF.

Bendix AVIATION CORPORATION

Canadian Sales: Bendix-Eclipse of Canada, Ltd., Windsor, Ontario, Canada • Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y.

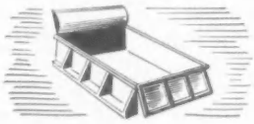
BODIES, Commercial—cont.

Olson Mfg. Co., 4000 Warm Springs Ave., Boise, Ida.
Olson & Son, Inc., Chas., 2945 Pillsbury Ave., Minneapolis, Minn.
Oltman-O'Neill Co., 23500 Sherwood Ave., Centerline, Mich. "Cargo-Tested."
Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa.
Oneida Products Corp., Canastota, N. Y.
Orrville Body Co., Orrville, Ohio.
Pacific Car & Foundry Co., Fourth & Factory St., Renton, Wash. "Carcovan."
Parks Body Works, 2215 N. Beckley St., Dallas, Texas.
Parsons Engineering Corp., 2345 E. 79th St., Cleveland, Ohio. (Public service.)
Peerless Mfg. Co., 4227 Bluffton Rd., Ft. Wayne 1, Ind.
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)
Prawitz & Bayer Co., 1211 S. Tenth St., St. Joseph, Mo.
Providence Body Co., 831 Cranston St., Cranston, R. I. (Also van.)
Quitsland Coach Body Corp., Taylor Ave. & Aloha St., Seattle 9, Wash.
R. B. Co., Quinotte & Euclid Sts., Kansas City 1, Mo.
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.
Rivers Body Factory, 2304 N. Myrtle Ave., Jacksonville 4, Fla.
Roadway Mounting & Equip. Co., 21177 Mound Rd. (P. O. Box 164), Van Dyke, Mich. (Also Utility and stake.)
Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerator and insulated.)
Rock Hill Body Co., W. Main St., Rock Hill, S. C.
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo. (Ice, etc.)
Scammell & Sons, 116 Quincy Ave., Quincy, Mass.
Schayer & Badinger, Inc., 724 S. Saratoga St., New Orleans 12, La.
Schmidt Carriage Works, D. H., Ninth & Lafayette Sts., St. Joseph 26, Mo.
Schmitt & Son, Inc., John V., 314 14th St., S.E., Washington 3, D. C.
Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa.
Sherman & Co., Earl, 2526 Wood St., Oakland 7, Cal. "Esco." (Refrigerated.)
Silver Body Works, Inc., 78 Ingraham St., Brooklyn 6, N. Y.
Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa.
Spangler Engineering & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
Spartan Coach & Mfg. Co., 613 N. Centerville Road, Sturgis, Mich.
Specialty Engineering Co., Allegheny & Trenton Aves., Philadelphia 34, Pa. (Bottlers'.)
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo.
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 11, Calif.
Steel Products Co., P. O. Box 1007, Savannah, Ga.
Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 17, Iowa.
Stewart Truck Bodies, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Step in, refrigerator, transportation, van, custom built, platform, stake.)
Strick Co., Whitaker Ave. & Godfrey St., Philadelphia 24, Pa.
Sturm & Sons, Inc., J., 864 Clinton Ave., Newark, N. J.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio. "De Luxe."
Swab Wagon Co., Elizabeth, Pa.
Swift All-Steel Body Co., 106 Hoyt St., Saginaw 29, Mich.
Syracuse Body Co., 131 W. Seneca St., Manlius, N. Y.
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Thompson Trailer Corp., Alexandria, Va. (Aluminum utility bodies.)
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.
Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa.
Transport Equipment Co., P. O. Box 465, Savannah, Ga.
Travelodge Corp., 65 N. Madison St., Tulsa, Okla.
Triangle Body Works, 2012 Waughton Rd., Winston-Salem 6, N. C. (Stake and van.)
Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Vanette Div. of Brooks & Perkins, Inc., 2457 Woodward Ave., Detroit 1, Mich. (For Ford chassis.)
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson, N. J.
Veglia, Louis, 1122 St. Peter St., New Orleans 16, La.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
Wade & Dunton, Inc., 686 Main St., Lewiston, Maine. (Custom built.)
Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.
Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y.
Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
Watkins Truck Industries, Inc., 191 Main St., Tarrytown, N. Y.
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.
Weir Body Co., 4504 Corning St., Omaha 3, Neb.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.
Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.
Western Motors, Body Div., 4834 Cermak Rd., Cicero, Ill.
Williamsen Body & Equipment Co., 2048 Washington Blvd., Ogden, Utah. "Wabco."
Winter-Weiss Co., 2001 Blake St., Denver 2, Colo.
Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.
Yankee Motor Bodies, 1224 E. Olympic Blvd., Los Angeles 21, Calif.
York-Hoover Corp., Body Div., Belvidere & Linden Aves., York, Pa. (Also public utility.)

BODIES, Commercial (Prefabricated)

Aluminum Body Corp., 4601 S. Soto St., Vernon 58, Calif.
Artisan Products, Inc., 3490 W. 140 St., Cleveland 11, Ohio. "Craftsman."
Black & Sons, Inc., Adam, 276 Townele Ave., Jersey City, N. J.
Brown Trailers, Inc., Box 54, Spokane 1, Wash. (Aluminum.)
Clayson-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gichner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio.
Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill. (Truck and trailer.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)
Reynolds Metals Co., 1419 Dixie Highway, Louisville, Ky. (Truck and trailer.)
Sturm & Sons, Inc., J., 864 Clinton Ave., Newark, N. J.
Rockford Automotive Industries, Inc., 1008 Oak St., DeKalb, Ill. (Pick-up conversion.)

BODIES, Dump



Acme Body Works, 1314 N. Meade St., Appleton, Wis.
Aluminum Body Corp., 4601 S. Soto St., Vernon 58, Calif.
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Anthony Co., Streator, Ill.
Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Ateco."
Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
Baughman Mfg. Co., Jerseyville, Ill.
Black & Sons, Inc., Adam, 276 Tonnelle Ave., Jersey City, N. J.
Clark Co., B. M., Union, Maine.
Converto Mfg. Co., Cambridge City, Ind.
Cook Bros. Equip. Co., 3330 San Fernando Rd., Los Angeles 41, Calif.
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Dorsey Trailers, Inc., Elba, Ala.
Dura-Bilt Body Co., 367 Mystic Ave., Medford 55, Mass.
Easton Car & Construction Co., Easton, Pa. (Heavy duty.)
Edwards Trailer & Body Co., Div. of Edwards Iron Works, Inc., 2301 S. Main St., South Bend 23, Ind. (Platform, stock and grain.)
Galion Allsteel Body Co., 605 S. Market St., Galion, Ohio.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW," "Load Packer." (Garbage and rubbish collection unit.)
Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
Grace Mfg. Co., W. E., 7000 S. Lamar St., Dallas, Tex. (Garbage collection.)
Greenville Steel & Foundry Co., Greenville, S. C.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hercules-Campbell Body Co., Tarrytown, N. Y.
Hercules Steel Products Co., Box 477, Galion, Ohio.
Independent Iron Works, Eighth & Pine Sts., Oakland 7, Calif.
Jensen's Body Shop, Phillips, Wis.
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Lang Co., 267 W. First South St., Salt Lake City 9, Utah. (Steel.)
Lu-Met, Inc., 530 E. 12th St., Cincinnati 10, Ohio.
Marion Metal Products Co., Cheney Ave., Marion, Ohio.
Moline Body Co., 222-52nd St., Moline, Ill.
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
National Steel Products Co., 1611 Crystal Ave., Kansas City 3, Mo.
National Truck Equipment Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
Olson Mfg. Co., 4000 Warm Springs Ave., Boise, Idaho.
Palm Bros. Body Co., Eighth & Buttonwood Sts., Reading, Pa. "Hi-Lift." (Coal.)
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio.
Providence Body Co., 831 Cranston St., Cranston, R. I.
Rodenhausen's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa. (Hydraulic, for coal.)
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.
St. Paul Div., Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa.
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 11, Calif.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.
Syracuse Body Co., 2101 S. Salina St., Syracuse 5, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Truck Engineering Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Teco."
Truck Welding & Equipment Co., 739 Ninth Ave. N., Seattle 9, Wash.
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson, N. J.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.

BODIES, TANK, See Tanks, Trailer and Truck Body

BODY HOISTS, See Hoists, Truck Body

Sealed Power

MD-50 STEEL OIL RING

The only ring with the FULL-FLOW SPRING . . .

insures a

FULL FLOW OF OIL

through ring, through spring, through piston oil holes, back to crankcase!

Best for oil control even in BADLY TAPERED and OUT-OF-ROUND BORES

SEALED POWER CORPORATION, MUSKEGON, MICHIGAN

GET IT FROM YOUR JOBBER

Sealed Power Piston Rings

BEST IN NEW TRUCKS BEST IN OLD TRUCKS

BODY PARTS (Pre-Shaped)

Artisan Metal Works Co., 11400 Madison Ave., Cleveland 2 Ohio. "Armet."
Automotive Spring, Inc., 2627 Magnolia Ave., Detroit 8, Mich.
Bath & Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Binkley Mfg. Co., Warrenton, Mo.
Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
Hart Pressed Steel Corp., 3306 Hammond St., Elkhart, Ind.
Haskelite Mfg. Corp., 701 Ann St. N. W., Grand Rapids 2, Mich.
Hill Auto Body Metal Co., 700 W. 6th St., Cincinnati, Ohio.
Indianapolis Power Hammer Works, 309 W. Maryland St., Indianapolis, Ind.
International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
Kinnear Mfg. Co., 927 Fields Ave., Columbus, Ohio.
Kirk & Blum Mfg. Co., 2858 Spring Grove Ave., Cincinnati 25, Ohio.
Lewgust Corp., 552 W. 23rd St., N. Y. 11, N. Y.
Lewisohn Sales Co., 552 W. 23rd St., New York, N. Y.
Lindsay Structure, Inc., 5000 W. Dempster St., Skokie, Ill.
London Vault Co., London, Ohio. "All-Way." (Braces.)
Metalcraft Engr. Corp., Box 290, Marietta, Ga.
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill.
Monroe Mfg. Co., 2525 S. Dort Highway, Flint 7, Mich. (Platforms.)
Parish Pressed Steel Corp., Robeson & Weizer Sts., Reading, Pa.
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio. (Roof bows.)
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 1, Ohio.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)

BOLTS, Connecting Rod

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich. "Bohnalite."
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clawson & Bals, Inc. See Bohn Aluminum & Brass Corp.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
Ferry Screw Products, Inc., E. W., Brookpark (Berea), Ohio.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Mac-It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
Western Automatic Screw Machine Co., 752 Lake Ave., Elyria, Ohio.

BOLTS, Spring Center

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Pheoll Mfg. Co., 5700 W. Roosevelt Rd., Chicago, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
St. Louis Screw & Bolt Co., 69 N. Broadway, St. Louis 15, Mo.
Tuthill Spring Co., 760 W. Polk St., Chicago, Ill.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Wheel Parts & Mfg. Co., 354-4th Ave., New York 10, N. Y. "National."

BOLTS, Spring Shackle

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 17, Ill. "Quality Built."
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clark Bros. Bolt Co., Canal St., Milldale, Conn.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Rubber insulated, sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Metzger Welding Co., 1652 Powers St., Cincinnati, Ohio.
Perfection Spring Co., 11905 Miles Ave., Cleveland 5, Ohio.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
Simmons Mfg. Co., Ashland, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BOOSTERS, BRAKE, See Brakes, Vacuum Power

BOOSTERS, STEERING, See Gears, Steering (Booster Units)

BOOTHS, Spraying (Paint and Varnish)

American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 100 Dairy Road, Parkton 63, Md.
Cascade Mfg. Co., 2439 N. W. 29th St., Portland 10, Ore.
Despatch Oven Co., 619 Eighth St., S. E. Minneapolis 14, Minn.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Kinnear Mfg. Co., Columbus, Ohio. (Door.)
Macleod Co., 2232 Bogen St., Cincinnati 23, Ohio.
Mahon Co., R. C., 6565 E. Eight Mile Road, Detroit 34, Mich.
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Uni-Wash."
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. "Hydro-Whirl."
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."

BORING BARS, See Tools, Cylinder Re-boring

BORING MACHINES, See Machines, Boring

BRAKE LINING, See Lining, Brake

BRAKE LINING GRINDERS, See Grinders, Brake Lining

BRAKE LOCKS, See Locks, Brake

BRAKE PARTS, See Parts, Brake

BRAKE RELINING MACHINES, See Machines, Brake Relining

BRAKE SHOES, See Shoes, Brake

BRAKES, Air

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

BRAKES, Electric

Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis. (Truck.)

BRAKES, Hydraulic

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix Products Div., Bendix Products Corp., 401 Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Martin Co., Glenn L., Baltimore 3, Md.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. ["Wagner Lockheed" (Licensees); "Hi-Tork." (For commercial vehicles.)]

BRAKES, Master Cylinders (Hydraulic)

Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Mico."
New York Air Brake Co., 420 Lexington Ave., New York 17, N. Y. "Hycon." (For light and medium trucks and buses.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner Lockheed."

BRAKES, Mechanical

American Chain & Cable Co., Automotive & Aircraft Div., 6-235 General Motors Bldg., Detroit 2, Mich. "Tru-Stop."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

BRAKES, Trailer

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K." (Vacuum power.)
Dorsey Trailers, Inc., Elba, Ala.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Kay-Brunner Steel Products, Inc., 999 Meridan Ave., Alhambra, Calif. (Mechanical.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Magdraulic." (Electric; "Lathan" vacuum power.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. (Air and vacuum.)
Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Roadmaster." (Vacuum power.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)
Spencer Trailer Co., Augusta, Kans. "Spencer Trail-Lite."
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or air.)
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (Air and hydraulic.)
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Compressed air.)
Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis. (Electric.)

BRAKES, Vacuum Power

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K," "Hydrovac."
Gilmore & Spaulding, 365 W. Claremont St., Pasadena, Calif. "Rocket." (Sole distributors, South Gate Brake Specialties Co., 9809 Long Beach Blvd., South Gate, Calif.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Vacdraulic." (Auto and truck; "Lathan" auto, truck and bus.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Road-Master."
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

Get a Studebaker and get "more truck" for the money!

1½-ton shown with 12-foot platform stake body—also available on 2-ton chassis.

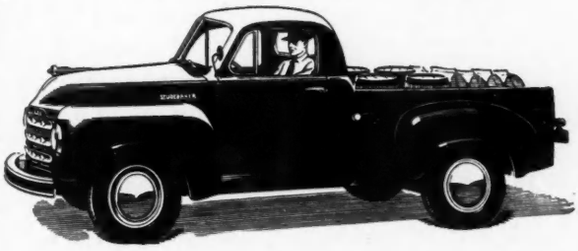
A "plus" of extra-value features!

Big visibility cab with head room, hip room, leg room for three . . . Fully enclosed safety steps . . . "Lift-the-hood" accessibility to engine, ignition, instrument panel wiring . . . Adjusto-Air seat cushion . . . Two foot-controlled floor ventilators . . . Two built-in window wings . . . Dual windshield wipers . . . Two arm rests and sun visors . . . Cab light with hand and automatic door switches . . . Rheostat controlled instrument panel lights . . . Automatic "hold-open" door stops . . . Tight-gripping rotary door latches . . . Metal-lined door panels and dash compartment . . . Automatic spark control and octane selector . . . Full pressure lubrication . . . Extra strong K-member front frame reinforcement . . . Full box-section cross members . . . Rugged, easy-riding springs . . . Shock-proof cross link steering with variable-ratio extra leverage for easier turn-arounds and parking.

Gas-saving

OVERDRIVE TRANSMISSION

Available in ½ ton and ¾ ton models at extra cost



Sizes and wheelbases for hundreds of hauling needs! The rugged, handsome Studebaker trucks come in ½, ¾, 1, 1½ and 2 ton models. Two great Studebaker truck engines—the efficient, dependable Econ-o-miser—and the high-torque Power-Plus.

STUDEBAKER TRUCKS... NOTED FOR LOW COST OPERATION!

BREAKER ARMS, See Arms, Breaker

BREAKER POINTS, See Points, Ignition

BREAKERS, Circuit

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Bulldog Electric Products Co., 7610 Jos Campau Ave., Detroit 32, Mich. "Circuit Master."
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
F & B Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio.
Littlefuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex. "Remco."
Rochester Mfg. Co., Inc., Rochester, N. Y.
Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass. "Klixon."
Square D Co., 6060 Rivard St., Detroit 11, Mich.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh, Pa. "De-ion."

BRUSHES, Carbon Cleaning (Hand)

Millers Falls Co., Greenfield, Mass.
New Britain Machine Co., Hand Tools Div., 140 Chestnut St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N.E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), Baltimore, Md. "Even Trim."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

BRUSHES, Carbon Removing

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keystone Reamer & Tool Co., Millersburg, Pa.
Milwaukee Brush Mfg. Co., 2326 N. 30th St., Milwaukee 8, Wis.
New Britain Machine Co., Hand Tools Div., 140 Chestnut St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Perfect Balance."
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools Towson 4, Md.
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

BRUSHES, Fountain, See Washers, Fountain Brushes & Mops

BRUSHES, Generator, Horn and Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Co., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Generator and starter.)
Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. "B.B.B." (Generator and starter.)
Carbone Co., Myrtle Ave., Boonton, N. J.
Echlin Mfg. Co., 220 East St., New Haven, Conn. (Generator and starter.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Generator and starter.)
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." (Generator and starter.)
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.
P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan," (Generator and starter; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Shurhit Products, Inc., Waukegan, Ill. (Starter and generator.)
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Speer Carbon Co., St. Marys, Pa.
Stackpole Carbon Co., Tannery St., St. Marys, Pa.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Generator and starter.)
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Generator and starter.)

BRUSHES, WASHING, See Washers, Fountain Brushes and Mops

BUFFERS, Portable

Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Admiral," "Metalmaster."
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Van Dorn Electric Tools, Towson 4, Md.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BUFFERS, Tire (Electric)

Albertson & Co. 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Blue Streak."
Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif. "RE."
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif. "AutoStart."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

BULBS, See Lamps, Bulbs, Miniature, Incandescent

BUMPERS

Bath Co., Cyril, Metal Form Div., E. 70th & Machinery Ave., Cleveland 3, Ohio.
Central Motors Co., 906 Austin Ave., Waco, Tex. "General Purpose." (Rear, for Dodge trucks.)
Electric Auto-Lite Co., Sharonville, Ohio.
Houdaille-Hershey Corp., Chicago Bumper Div., 1455 W. 38th St., Chicago 9, Ill.
Houdaille-Hershey Corp., Detroit Bumper Div., 2660 E. Grand Blvd., Detroit 11, Mich.
Houdaille-Hershey Corp., Huntington Div., 900 Ninth Ave., W., Huntington, W. Va.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit." (Rear, for light trucks.)
Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.
Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. "Body-Gard." (Channel, for trucks and buses.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.
Standard Mfg. Co., Willow St., Mt. Airy, N. C. (Rear.)
Standard Steel Spring Co., Coraopolis, Pa. (Also trailer.)
United States Spring & Bumper Co., 4951 Alcoa Ave., Los Angeles 11, Calif.

BUSES

ACF-Brill Motors Co., 62nd St. & Woodland Ave., Philadelphia 42, Pa. (Also trolley coaches.)
Available Truck Co., 2501 Elston Ave., Chicago, Ill. (Gasoline or Diesel.)
Beaver Metropolitan Coaches, Inc., 24th St. Ext., Beaver Falls, Pa.
Beck & Co., C. D., Sidney, Ohio.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich.
Corbitt Co., Henderson, N. C.
Crown Body & Coach Corp., 2500 E. 12 St., Los Angeles 21, Calif. (Gasoline.)
Cub Industries Inc., White Pigeon, Mich.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Fitzjohn Coach Co., Muskegon, Mich.
Flxible Co., 326 N. Water St., Loudonville, Ohio.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich. "Yellow Coach."
General American Aerocoach-Motor Coach Div., General American Transportation Corp., 135 S. La Salle St., Chicago, Ill. "Aerocoach."
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill. (School.)
Kalamazoo Coaches, Inc., 4300 Lovers Lane Road, Kalamazoo, Mich. "Pony Cruiser." "Kalamazoo Cruiser."
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y. (Gasoline and Diesel.)
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)
Metropolitan Motor Coaches, Inc., Highland Park, Mich.
Reo Motors, Inc., 1331 S. Washington St., Lansing, Mich.
Southern Coach Mfg. Co., Evergreen, Ala.
Spartan Coach & Mfg. Co., 613 N. Centerville Rd., Sturgis, Mich.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind. (Chassis only.)
Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio.
Transit Buses, Inc., 11343 Schaefer Rd., Detroit 27, Mich.
Twin Coach Co., 850 W. Main St., Kent, Ohio. (Gasoline, Diesel and LP Gas buses and electric trolley buses.)
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

BUSHINGS, See also Bearings and Bushings

BUSHINGS, Bronze

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
American Motor Products Co., Fond du Lac, Wis. "Ampco."
American Non-Gran Bronze Co., Lancaster Ave., Berwyn, Pa.
Ampco Metal, Inc., 1747 S. 38th St., Milwaukee 15, Wis. (Also aluminum bronze.)
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (For starters and generators.)
Bearium Metals Corp., 268 State St., Rochester 14, N. Y.
Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind.
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.

Plate postmortem shows reasons for Exide long life

On the "dissecting table" in Exide's laboratory, batteries that have undergone long, hard road service are taken apart and examined plate by plate. Each analysis is recorded and compared with data obtained from the many other tests constantly being made to assure top quality performance from every Exide Battery you buy.

When your batteries are Exides, you can count on dependable starting, long battery life, minimum maintenance and *low cost per mile of operation.*

THE ELECTRIC STORAGE BATTERY COMPANY
Philadelphia 32
Exide Batteries of Canada, Limited, Toronto
"Exide" *Reg. Trade-mark U.S. Pat. Off.*

1888...DEPENDABLE BATTERIES FOR 62 YEARS...1950

The GREAT NEW EXIDE gives you MORE BATTERY FOR YOUR MONEY...

A new high in STARTING POWER
LONGER LIFE than ever before
LOWER COST per mile of operation

EXIDE HAS EVERYTHING

BUSHINGS, Bronze—cont.

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
Burlington Brass Works, Burlington, Wis.
Cleveland Graphite Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Dayton Bronze Bearing Co., 303 Keowee St., Dayton, Ohio.
Erie Bronze Co., 355 W. 19th St., Erie, Pa.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Generator, starter and distributor.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
Grand Haven Brass Foundry, 230 N. Hopkins St., Grand Haven, Mich.
Green Line Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y. (For generators and starters.)
Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit, Mich.
Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
Kendrick Mfg. Co., 2705 Wight St., Detroit, Mich.
Markey Bronze Bushing Co., Delta, Ohio.
Moccasin Bushing Co., Chestnut & 20th Sts., Chattanooga, Tenn.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex," "Moraine."
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich. "Streamline."
National Formetal Co., 6600 Metta Ave., Cleveland 14, Ohio. "Easy-Ream."
Neveroil Bearing Co., 29 Foundry St., Wakefield, Mass. "Coprex."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Connecting rod and piston pin.)
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa.
Randall Graphite Bearings, Inc., 609 W. Lake St., Chicago 6, Ill. (Graphite.)
Standard Brass Works, 1810 W. St. Paul Ave., Milwaukee, Wis.
Superior Brass Works, 312 S. Crawford St., Detroit 17, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
United American Metals Corp., 200 Diamond St., Brooklyn 22, N. Y. "Autocrat," "Centrificast," "XX Autocrat."
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.

BUSHINGS, Rubber

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Doan Mfg. Corp., 1761 London Road, Cleveland 12, Ohio. "Armor-Flex."
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Harris Products Co., 5105 Cowan Ave., Cleveland, Ohio.
Hewitt Rubber Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Bonded to metal.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts. Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Santay Corp., 351 N. Crawford Ave., Chicago 24, Ill. "Shock-Proof."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

BUSHINGS, Steel

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Bard Mfg. Co., Royersford, Pa.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Cleveland Graphite Bronze Co., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Machine Products Co., 1235 Washington Blvd., Pittsburgh 6, Pa.
Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
National Formetal Div., Federal Mogul Corp., 6600 Metta Ave., Cleveland 14, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BUTANE, See Fuels, Engine

CABINETS, Accessory and Parts

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Central Sheet Metal Works, Inc., 2647 Clybourn Ave., Chicago 14, Ill.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
Gilbert & Barker Mfg. Co., Springfield, Mass. "Calco-Meter," "Gilbarco."
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.

CABLE, Brake Control (With Conduit)

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
American Chain & Cable Co., Automotive & Aircraft Div., 6-235 General Motors Bldg., Detroit 2, Mich. "Tru-Lay." (Using "Tru-Loc" fittings.)
Bendix Produucts Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Eis Automotive Corp., Middletown, Conn.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y. "Rowden."
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For Steeldraulic, Bendix and Huck brakes.)

CABLE, Ignition, Starting and Lighting
(In bulk, length on spools, rolls, etc.)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass. "Lusterlac."
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Clark Cable Corp., 11201 Berea Md., Cleveland 2, Ohio.
Crescent Co., Pawtucket, R. I. "Wiry Joe."
Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite."
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
General Electric Co., Const. Material Dept., Bridgeport, Conn. (Ignition.)
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., Philadelphia 35, Pa.
Habirshaw Cable & Wire Div. Phelps Dodge Copper Products Corp., 40 Wall St., New York, N. Y.
Jordan Electrical Mfg. Co., 222 N. 2 St., Minneapolis 1, Minn.
Kathanode Corp., 1st National Bank Bldg., St. Paul 1, Minn.
Kerite Co., 30 Church St., New York 7, N. Y. (Ignition.)
Lenhart Mfg. Co., Hamburg, Pa.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
Ohio Parts Co., Theresa St. & Chonteau Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Royal Electric Co., Pawtucket, R. I.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaco."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
Walker Bros., Conshohocken, Pa. "Walker of Conshohocken."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, SPEEDOMETER, See Speedometer Cables

CABLES, Storage Battery
(Complete with terminals)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass. "Lusterlac."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Clark Cable Corp., 11201 Berea Rd., Cleveland 2, Ohio. (Ignition.)
Crescent Co., 75 Eagle St., Pawtucket, R. I. "Wiry Joe."
Electric Auto-Lite Co., Merchandising Div., Toledo, Ohio. "Auto-Lite."
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., Philadelphia 35, Pa.
Gould Storage Battery Co., Trenton, N. J.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif.
National Ignition Mfg. Co., 521 W. 23 St., New York 11, N. Y.
Ohio Parts Co., Theresa St. & Chonteau Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaple."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
Walker Bros., Conshohocken, Pa. "Walker of Conshohocken."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, Welding
(See also Hose, Welding)

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42 St., N. Y. 17, N. Y. "Airco."
American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio. "Amercland."
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Crescent Co., Pawtucket, R. I.

Down goes the temperature . . . down goes the cranking power of a battery. And how! Did you know that a fully charged battery delivers only 40% of its cranking power when the temperature drops to zero? And a *half*-charged battery delivers only 21% of its cranking power. So keep 'em well charged . . . and keep your customers happy.

• • •

Batteries with a low-level charge will freeze at 19 degrees above zero. So in addition to lost cranking power, there's the danger of a freeze-up. Here's a chart that will show you the temperatures at which batteries will freeze, depending on the Specific Gravity indicated.

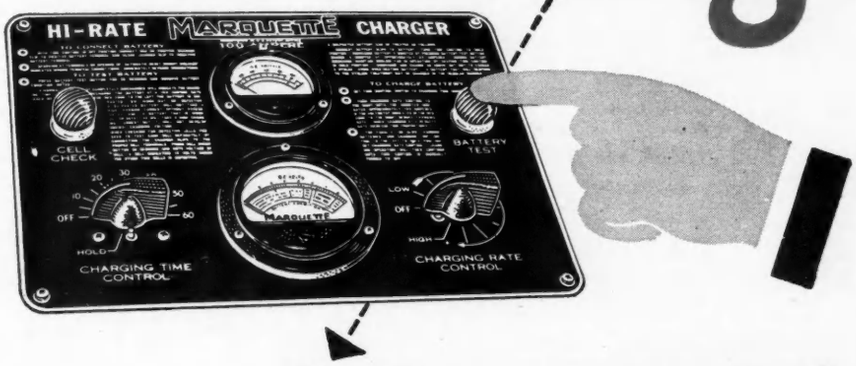
• • •

SPECIFIC GRAVITY (*corrected to 80 F.*)	FREEZING TEMPERATURE
1.280 (fully charged)	*–90 F.*
1.250 (¾ charged)	*–62 F.*
1.200 (½ charged)	*–16 F.*
1.150	*5 F.*
1.100	*19 F.*

The Specific Gravity reading of a battery that has just received a fast charge will not necessarily show the amount of charge in the battery. That's because in the charging process the sulphuric acid is driven from the plates into the electrolyte solution . . . but it will not mix thoroughly with the solution for 24 to 48 hours. (Unless the battery is jostled around; driving over rough roads, for example, the thorough mixing may take an hour or less.)

Never try to obtain a true Specific Gravity reading immediately after high-rate charging.

keep 'em rolling!



The 20-second test puts the finger on defective batteries!

To keep earning, your fleet has to keep working. You lose money every *minute* it's tied up. There's no need to let battery trouble cause delays. With a Marquette Hi-Rate Tester and Charger you can spot a defective battery—or determine the charge it needs—in just 20 seconds. Change it, or charge it . . . and have your rig *ready* for the road.

Use the versatile Hi-Rate for battery analyzing, fast charging, slow charging, or as a booster.

Yes, you can count on Marquette Hi-Rate Battery Testers and Chargers to keep 'em rolling. Equip now!

MARQUETTE

REGISTERED U.S. PAT. OFFICE

HI-RATE
BATTERY TESTERS AND CHARGERS

Get it from your Jobber!...

MARQUETTE MFG. CO., INC.
307 E. Hennepin Avenue
Minneapolis 14, Minnesota

CABLES, Welding—cont.

Habirshaw Cable & Wire Div. Phelps Dodge Copper Products Corp., 40 Wall St., New York, N. Y.
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio. "Stable-Arc."
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG."
Roebling's Sons Co., John A., 640 S. Broad St., Trenton, N. J.

CALIPERS and DIVIDERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass. (Calipers.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis. (Micrometer calipers.)
DoAll Co., 254 N. Laurel Ave., Des Moines, Iowa.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Millers Falls Co., Greenfield, Mass.
Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
T & H Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Calipers.)
Union Tool Co., 48 E. River St., Orange, Mass.
Vard, Inc., 2981 E. Colorado St., Pasadena 8, Calif. (Calipers.)
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. (Inside calipers.)

CANS, Gasoline

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill. "Protection."
Dover Stamping Co., 80 Federal St., Boston, Mass.
Eagle Mfg. Co., Wellsburg, W. Va. "Eagle," "Two-In-One."
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "Safeguard."
Huffman Mfg. Co., Davis & Gilbert Aves., Dayton 1, Ohio.
Justrite Mfg. Co., 2061 N. Southport Ave., Chicago 14, Ill.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."
Wittie Mfg. Co., 1414 S. Wabash Ave., Chicago, Ill.

CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Dover Stamping Co., 80 Federal St., Boston, Mass. "Flexo."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Eagle Mfg. Co., Wellsburg, W. Va.
Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "G. L.," "Lidseen."
Marvin Mfg. Co., W. B., W. Court St., Urbana, Ohio.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
Wall Mfg. Supply Co., P., P. O. Box 71, Grove City, Pa. "Superior."

CANS, Radiator Filling

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Dover Stamping Co., 80 Federal St., Boston, Mass.
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."

CANVAS, See Fabric, Coated Cloth, also Tarpaulins

CAPS, Gasoline Tank (Locking)

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Electroline Mfg. Co., 1975 E. 61 St., Cleveland 3, Ohio.
Ivano, Inc., 2100 Indiana Ave., Chicago 16, Ill.
Knight-Morley Corp., 508 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.
Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Quinplex Corp., 429 Fourth Ave., Pittsburgh 19, Pa.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snap-Up Gas Cap Co., 2528 Greenup Ave., Ashland, Ky. (Electrically controlled.)
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind. "Dual-Loc."
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

CAPS, Tire Valve

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82d St., Cleveland 8, Ohio.
Emvir Mfg. Co., 1705 Lincoln St., Evanston, Ill. "Autocap." (Automatic.)
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Kirspel Industries, Inc., 300 Main St., Orange, N. J.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

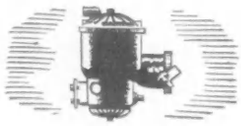
CARBON MONOXIDE INDICATORS, See Indicators, Carbon Monoxide

CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems

CARBURETORS, Butane, Propane, LPG

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif. "Algas."
Century Gas Equipment Co., 11188 Long Beach Blvd., Lynwood, Calif. (Also natural gas.)
Ensign Carburetor Co., 7010 S. Alemeda St., Huntington Park, Calif.
Dix Mfg. Co., 3447 E. Pico Blvd., Los Angeles 23, Calif.
J & S Carburetor Co., Box 5023, Dallas 2, Tex.
Roadmaster Products Co., 3350 San Francisco Rd., Los Angeles, Calif.

CARBURETORS, Gasoline



Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Stromberg" (Aircraft and automotive for replacement sales.)
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Stromberg." (For equipment sales.)
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Marvel-Schebler Carburetor Div., Borg-Warner Corp., 1910 St. John St., Flint, Mich. "Marvel," "Rayfield," "Schebler," "Johnson."
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo, Ohio.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. "Zenith." (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARBURETORS, Parts

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
International Spare Parts Co., 5-01 56th Rd., Long Island City 1, N. Y.
National Machine Works, Inc., 2414 S. Robinson Ave., Oklahoma City 9, Okla.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Precision Automotive Components Co., 7263 Lansdowne St., St. Louis 19, Mo. "Pacco."
Simmons Mfg. Co., Ashland, Ohio.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y.

CARRIERS, Storage Battery

Berkson Products, Inc., 3317 W. Newport Ave., Chicago 18, Ill.
Bishman Mfg. Co., Osseo, Minn.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Economy," "Safety," "Victory."
Champ Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Houser Engng. & Mfg. Co., Bluffton, Ind.
Kreger Mfg. Co., L. F., 540 W. 36th St., Chicago 16, Ill. "Safe-Tee Grip."
Loock & Co., R. J., 843 N. Gay St., Baltimore, Md. "Lightnin."
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio. "Cock-Eyed."
Murray Corp., Towson 4, Md.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., 140 Chestnut St., New Britain, Conn.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Thompson-Neaylon Mfg. Co., 3535 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Hold-tite."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis. "Wisco."

CARRIERS, Tire

Clark Bros. Mfg. Co., 144 W. Lake Ave., Watsonville, Calif. (For trucks, buses and trailers.)
Crosby Co., 183 Pratt St., Buffalo, N. Y.
Extendo Corp., 4950 Melrose Ave., Los Angeles 27, Calif. (Automatic, for trucks.)
Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. (For trucks and trailers.)

CEMENT, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

CEMENT, Cast Iron

(For repairing cracks in castings)

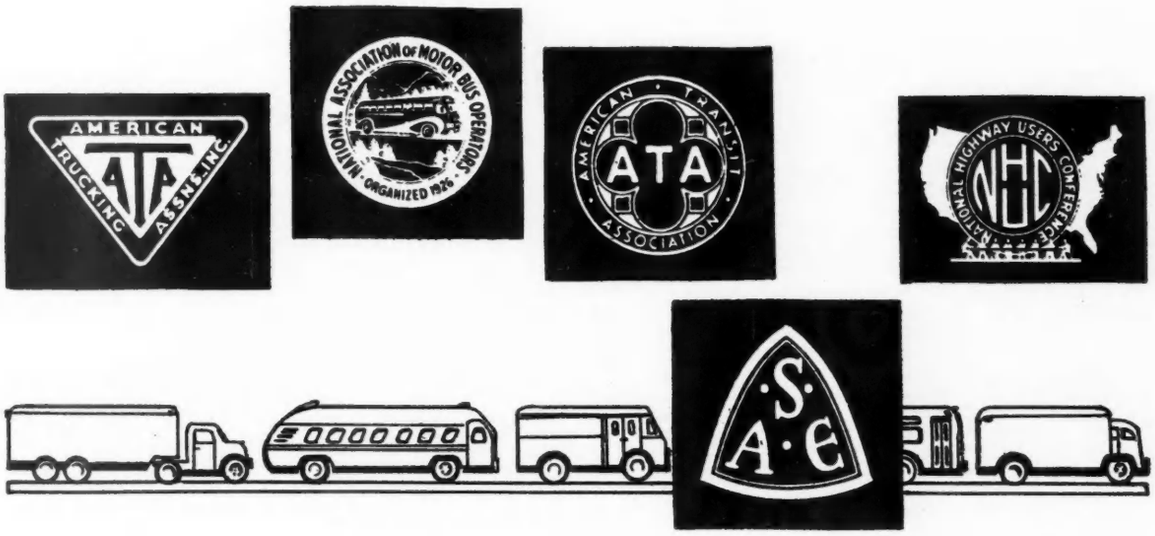
All-State Welding Alloys Co., 273 Ferris Ave., White Plains, N. Y. "Karseal."
Bell Co., 411 N. Wolcott St., Chicago 22, Ill. "Bell's," "Flare."
Blue Seal Metals Co., Onamis, Minn.

(TURN TO PAGE 88, PLEASE)

COMMERCIAL CAR JOURNAL'S

Directory of ASSOCIATIONS

OF INTEREST TO FLEETMEN



NATIONAL ASSOCIATIONS

(Date in Parentheses Indicates Year Founded)

AMERICAN ASSN. OF STATE HIGHWAY OFFICIALS (1914), 917 National Press Bldg., Washington 4, D. C., H. H. Hale, Executive Sec.

AMERICAN AUTOMOBILE ASSN. (1902), Pennsylvania Ave. at 17th St., N.W., Washington 6, D. C., Russell E. Singer, Executive V. P.

AMERICAN PETROLEUM INSTITUTE (1919), 50 West 50th St., New York 20, N. Y.
STAFF EXECUTIVES:
President—Frank M. Porter.
Director Division of Transportation — James E. Moss.

AMERICAN ROAD BUILDERS' ASSN. (1902), International Bldg., Washington 4, D. C., Eugene Reybold, Exec. V. P. and Sec.

AMERICAN SOCIETY OF BODY ENGINEERS, Inc. (1945), 100 Farnsworth Ave., Detroit 2, Mich., L. James Berridge, Sec.

AMERICAN SOCIETY OF REFRIGERATING ENGINEERS, 40 West 40th St., New York 18, N. Y., M. C. Turpin, Sec.

AMERICAN TAXICAB ASSN. (1942), 4415 N. California Ave., Chicago 25, Ill., C. Franklin Smith, Exec. Sec.

AMERICAN TRANSIT ASSN. (1882), 292 Madison Ave., New York 17, N. Y.
STAFF EXECUTIVES:
Executive Manager—Guy C. Hecker.
Gen'l. Sec.—Arthur W. Baker.
Administration Asst.—Van Court Lucas.
Asst. to Mgr. & Sec.—Kenneth L. McKee.
Dept. of Personnel & Accident Prevention —Merwyn A. Kraft, Dir.
Dept. of Research—Walter S. Rainville, Jr., Dir.
Engineering Asst.—James A. Emery, Jr.
Labor Relations Advisor—Geo. W. Anderson.
Public Relations Division—John C. Cropper, Sec.
Editor in Chief, Passenger Transport — William U. Taylor.

AMERICAN TRUCKING ASSN., INC. (1933), 1424 Sixteenth St., N.W., Washington 6, D. C.
STAFF EXECUTIVES:
Managing Director—John V. Lawrence.
General Manager—Ray G. Atherton.
Asst. Genl. Mgr. & Dir. Public Relations—Walter W. Belson.
General Counsel—Edgar S. Idol.
Comptroller—George H. Minnick.
Dir. Dept. of Research—W. A. Bresnahan.
Dir. Traffic Dept.—Frederick G. Freund.
Dir. Dept. of Safety—G. D. Sontheimer.
Dir. Dept. Industrial Relations—Benjamin R. Miller.
Dir. Field Service Dept.—Harry B. Bridgman.
Editor, Transport Topics — Morris H. Glazer.
Dir. Production & Mailing Dept.—P. J. Kessel.

ATA SECTIONS:
Equipment & Operating Section — Hoy Stevens, Chief.
Freight Claim Section—John M. Miller, Sec.
Special Services Section—E. M. Welliver, Chief.
Government Traffic Section — Ralph D. Yates, Chief.
Publicity Section—Robert J. Test, Chief.
Accident Statistics Section—Neil Darmstadter, Chief.
Librarian—Dorothy Smith.

ATA CONFERENCES:
Regular Common Carrier Conference — Robert J. McBride, Gen. Mgr.
Irregular Route Common Carrier Conference—Miss Genevieve McGoff, Mgr. Sec.
Local Cartage Conference—Frank Floyd, Exec. Sec.
Movers Conference of America—James F. Rowan, Exec. Sec.
Tank Truck Carriers Conference—C. Austin Sutherland, Sec. Mgr.

NATIONAL ASSOCIATIONS (Cont.)

AMERICAN TRUCKING ASSN., INC. (Continued)
Contract Carriers Conference—Mrs. Vee Kennedy, Exec. Sec.
Automobile Transporters Conference—W. A. Bresnahan.
Film Carriers Conference — Harry B. Bridgman.
Oilfield Haulers Conference—Benjamin R. Miller.
Private Carriers Conference — Vincent O'Donnell.
(See also listings under State Truck Associations)

AUTOMOBILE MANUFACTURERS ASSN. (1913), 320 New Center Bldg., Detroit 2, Mich.
STAFF EXECUTIVES:
Managing Dir.—Wm. J. Cronin.
Motor Truck Div. and Field Services Dept. —Karl M. Richards, Mgr.
Dir. Public Relations—Wm. H. McGaughey.
Statistical Dept.—O. P. Pearson, Mgr.
Patent Dept.—George C. Arvedson, Mgr.
Traffic Dept.—Kenneth A. Moore, Mgr.
Engineering Dept.—Wm. F. Sherman, Mgr.
Washington Office — 830 Transportation Bldg., Harlan V. Hadley, Mgr.; John H. King, Motor Truck Div. representative.
New York Office—366 Madison Ave., Alfred Reeves, Advisory V. P.

AUTOMOTIVE SAFETY FOUNDATION, 700 Hill Bldg., Washington 4, D. C., Pyke Johnson, Pres.

HIGHWAY RESEARCH BOARD OF NATIONAL RESEARCH COUNCIL (1920), 2101 Constitution Ave., Washington 7, D. C., Roy W. Crum, Dir.

NATIONAL ASSN. OF MOTOR BUS OPERATORS (1926), 839 17th St., N.W., Washington 6, D. C.
STAFF EXECUTIVES:
Secretary-Manager—A. W. Koehler.
Asst. to Sec.-Mgr.—W. R. Longanecker.
General Counsel—Jack Garrett Scott.
Dir. of Labor Relations Div.—Harold R. Hosea.

NATIONAL ASSN. OF TAXICAB OWNERS (1918), 803 Leader Bldg., Cleveland 14, Ohio, H. I. Gwilym, Sec.

NATIONAL AUTOMOBILE DEALERS ASSN., 1026 17th St., N.W., Washington 6, D. C., M. Robert Deo, Mgr.-Dir.

NATIONAL AUTOMOBILE TRANSPORTERS ASSN. (1944), 2627 Cadillac Tower, Detroit 26, Mich., R. E. Beiser, Gen. Mgr.

NATIONAL BUS TRAFFIC ASSN., INC. (1933), 506 S. Wabash Ave., Chicago 5, Ill.
P. J. Campbell, Chairman.
North Central Division—340 W. State St., Jacksonville, Ill., N. E. Simmons, Chairman.
South Central Division — 1215 13th St., Lubbock, Tex., C. M. Owens, Chairman.
Western Division — 506 S. W. Mill St., Portland, Ore., B. W. Wilson, Chairman.

NATIONAL COUNCIL OF PRIVATE MOTOR TRUCK OWNERS, INC. (1939), Kass Bldg., Washington 5, D. C., H. Scott Byerly, Mgr. Dir.

NATIONAL HIGHWAY USERS CONFERENCE, INC. (1932), National Press Bldg., Washington 4, D. C.
STAFF EXECUTIVES:
Director—Arthur C. Butler.
Asst. Director—P. D. McLean.
Research Counsel—Dawes E. Brisbine.
Mgr. States Services Dept. — Russell E. MacCleary.
REGIONAL REPRESENTATIVES:
(Note: For exact locations, address through National headquarters in Washington.)
John E. Boyd, Jr., Denver 10, Colo. (Colo., N. M., Utah, Wyo.)
G. H. Buenger, Seattle, Wash. (Idaho, Mont., Ore., Wash.)
Cecil Fausch, Minneapolis 21, Minn. (Iowa, Minn., Neb., N. D., S. D.)
G. Lyle Griffin, Oklahoma City, Okla. (Ark., Kan., Mo., Okla., Tex.)
William L. Kinney, Athens, Ga. (Fla., Ga., N. C., S. C.)
Russell D. Lund, Chicago 2, Ill. (Ill., Ind., Mich., Ohio, Wis.)
David F. McQuaid, Nashua, N. H. (New York and supervision of New England States)
Theodore K. Robinson, Winthrop, Mass. (Conn., Maine, Mass., N. H., R. I., Vt.)
John C. Sandidge, Nashville 5, Tenn. (Ala., Ky., La., Miss., Tenn.)
Frederick J. Sievers, Jr., Alexandria, Va. (Del., Md., N. J., Pa., Va., W. Va.)
H. B. Simpson, San Francisco 2, Cal. (Ariz., Cal., Nev. and supervision of 11 western states.)
(See also listing under State Highway Users Conferences)

NATIONAL TRUCK BODY MANUFACTURERS AND DISTRIBUTORS ASSN., INC., 1004 DuPont Circle Bldg., Washington 6, D. C., Shipley D. Burton, Sec.-Mgr.

NATIONAL TRUCK LEASING SYSTEM (1945), 23 E. Jackson Blvd., Chicago 4, Ill., Miss Martha Dunlay, Sec.-Mgr.

NATIONAL SAFETY COUNCIL (1913), 20 N. Wacker Drive, Chicago 6, Ill.
STAFF EXECUTIVES:
Director Motor Transportation Bureau — Paul H. Coburn.
Eastern Region Office — Miss Barbara Gross, Administrative Asst., 800 Chrysler Bldg., New York 17, N. Y.
Western Region Office — Mrs. Barbara Pritchard, Office Manager, 111 Sutter St., San Francisco 4, Calif.

NATIONAL WHEEL AND RIM ASSN. (1924), 208 W. St., Clair Ave., Cleveland 13, Ohio, Joseph Glover, Exec. Sec.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC. (1905), 29 W. 39th St., New York 18, N. Y.
STAFF EXECUTIVES:
Sec. & Gen. Mgr.—John A. C. Warner.
Meetings Div.—T. A. Bissell, Mgr.
Technical Div.—Don Blanchard, Mgr.
Membership & Sections Div. — Hollister Moore, Mgr.
Administrative Div.—J. C. Hollis, Mgr.
Exec. Editor SAE Journal—Norman G. Shidle.
SAE Detroit Office—808 New Centre Bldg., Detroit, Mich., R. C. Sackett, Mgr.
SAE West Coast Office—714 W. Olympic Blvd., Los Angeles 15, Cal., E. W. Rentz, Jr., Mgr.
(See also listing under SAE Sections and Groups)

RUBBER MANUFACTURERS ASSN., INC., 444 Madison Ave., New York 22, N. Y., A. L. Viles, Pres. and Gen. Mgr.

TIRE AND RIM ASSN., 2001 First National Tower, Akron 8, Ohio, C. G. Hoover, Exec. V. P. & Sec.

TRANSPORTATION ASSN. OF AMERICA (1935), 130 N. Wells St., Chicago 6, Ill., Donald D. Conn, Exec. V. P.

TRUCK-TRAILER MANUFACTURERS ASSN., INC. (1941), National Press Bldg., Washington 4, D. C., John B. Hulse, Sec.-Mgr.

STATE MOTOR TRUCK ASSOCIATIONS

(Affiliated with American Trucking Assn., Inc.)

MOTOR VEHICLE ASSN. OF ALABAMA, INC. (1936), 224 Comer Building, Birmingham 3, Ala., R. J. Goode, Exec. V. P.

ARIZONA MOTOR TRANSPORT ASSN. (1939), 1633 W. Jefferson, Phoenix, Ariz., Glenn B. Sharp, Secy-Mgr.

ARKANSAS BUS & TRUCK ASSN., INC. (1942), 614 Wallace Building, Little Rock, Ark., Carroll L. Ownes, Mgr.

TRUCK OWNERS ASSN. OF CALIFORNIA, INC. (1934), 417 Market Street, Rm. 218, San Francisco, Cal., Larry Fites, Mgr.-Dir.

MOTOR TRUCK ASSN. OF SOUTHERN CALIFORNIA (1935), 3601 S. Flower St., Los Angeles 14, Cal., Wade Sherrard, Gen. Mgr.

COLORADO MOTOR CARRIERS ASSN. (1939), 407 Denham Building, Denver 2, Col., Ed L. Reilly, Exec. Secy.-Treas.

MOTOR TRANSPORT ASSN. OF CONNECTICUT, INC. (1930), 410 Asylum Street, Hartford 3, Conn., John F. Maerz, Secy.-Mgr.

DELAWARE MOTOR TRUCK ASSN. (1939), Keith Building, Dover, Del., Ernest V. Keith, Gen. Mgr.

DISTRICT OF COLUMBIA TRUCKING ASSN., INC. (1934), 1424 16th St., N.W., Washington 6, D. C., R. J. Test, Exec. Secy.

FLORIDA TRUCKING ASSN., INC. (1934), 218 W. Church St., P. O. Box 238, Jacksonville, Fla., C. A. Gertner, Exec. Secy.

MOTOR TRUCKING ASSN. OF GEORGIA, INC. (1934), 298½ Peachtree St., N.E., Atlanta, Ga., N. L. Young, Exec. V. P.

IDAHO MOTOR TRANSPORT ASSN. (1939), 414 Main St., P. O. Box 834, Boise, Idaho, Bert Trask, Secy. Mgr.

CENTRAL MOTOR FREIGHT ASSN. (1930), 29 E. Madison St., Heyworth Bldg., Chicago, Ill., R. B. Thornton, Mgr.

ILLINOIS MOTOR TRUCK OPERATORS ASSN., INC. (1924), 10 S. LaSalle St., Chicago, Ill., Walter McCarron, Gen. Mgr.

INDIANA MOTOR TRUCK ASSN., INC. (1932), 701-03 Roosevelt Bldg., 9 N. Illinois St., Indianapolis 4, Ind., James Nicholas, Exec. Secy.

IOWA MOTOR TRUCK ASSN., INC. (1943), 310 Central National Bldg., Des Moines, Iowa, LeRoy Crowley, Secy.-Mgr.

KANSAS MOTOR CARRIERS ASSN., INC. (1936), 503 New England Bldg., Topeka, Kan., John W. Harvey, Secy.-Mgr.

KENTUCKY MOTOR TRANSPORT ASSN., INC. (1924), 601-03 Republic Bldg., Louisville 2, Ky., Lew Ullrich, Managing Director.

LOUISIANA MOTOR TRANSPORT ASSN., INC. (1939), 528 Florida St., P. O. Box 1326, Baton Rouge, La., James P. Babington, Secy.-Mgr.

MAINE TRUCK OWNERS ASSN. (1946), Rm. 313, 415 Congress St., Portland, Me., William P. Shapleigh, Exec. Secy.

MARYLAND MOTOR TRUCK ASSN., INC. (1935), 22 Light Street, Baltimore 2, Md., Marshall Stewart, Exec. V. P.

MASSACHUSETTS MOTOR TRUCK ASSN., INC. (1919), 262 Washington St., Boston 8, Mass., Myles Illingworth, Mgr.

MICHIGAN TRUCKING ASSN. (1934), 220 Fort Shelby Hotel, Detroit 26, Mich., Miss Florence Kiely, Managing Director.

MINNESOTA MOTOR TRANSPORT ASSN. (1932), 2453 University Ave., St. Paul W-4, Minn., Lou Hosking, Gen. Mgr.

MISSISSIPPI MOTOR TRANSPORT ASSN., INC. (1943), 504 Deposit Guranty Bank Bldg., Jackson 104, Miss., C. R. Bradley, Mgr.

MISSOURI BUS & TRUCK ASSN. (1937), 118-A East High St., Jefferson City, Mo., U. G. Lewellen, Secy.

MONTANA MOTOR TRANSPORT ASSN. (1938), 124 N. 24th St., P. O. Box 1244, Billings, Mont., C. F. Reardon, Secy. Mgr.

NEBRASKA MOTOR CARRIERS ASSN., INC. (1924), 1318 "J" Street, Lincoln, Neb., Paul Halpine, Secy.

NEVADA MOTOR TRANSPORT ASSN. (1939), 209 N. Center St., Reno, Nev., C. M. Loer, Acting Mgr.

NEW HAMPSHIRE TRUCK OWNERS ASSN., INC. (1936), 274 Hanover St., Manchester, N. H., A. J. Staby, Secy. Mgr.

NEW JERSEY MOTOR TRUCK ASSN. (1915), 973 McCarter Highway, Newark 2, N. J., D. J. Crecca, Mgr.

NEW MEXICO MOTOR CARRIERS ASSN. (1938), P. O. Box 1126, Albuquerque, N. M., Charles H. Washam, Mgr.

MOTOR CARRIER ASSN. OF NEW YORK (1944), 23 East 26th St., New York 10, N. Y., Joseph M. Adelizzi, Mgr. Dir.

NEW YORK STATE MOTOR TRUCK ASSN., INC. (1932), 30 Vesey Street, New York 7, N. Y., Frank B. Kurtz, Mgr. Dir.

NORTH CAROLINA MOTOR CARRIERS ASSN. (1929), 712-15 Lawyers Bldg., Raleigh, N. C., J. T. Outlaw, Secy.

NORTH DAKOTA MOTOR CARRIERS ASSN., INC. (1935), 423½ Broadway, Bismarck, N. D., Allan M. Shirley, Secy. Mgr.

OHIO TRUCKING ASSN., INC. (1918), Leveque-Lincoln Tower, Columbus, Ohio, Frank Kirby, Secy.

ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC. (1932), 236 Oklahoma Natural Bldg., Oklahoma City 1, Okla., W. E. Van Vacter, Secy. Mgr.

OREGON MOTOR TRANSPORT ASSN. (1939), Weatherly Building, Portland 14, Ore., James B. Sharkey, Mgr.

PENNSYLVANIA MOTOR TRUCK ASSN. (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.

RHODE ISLAND TRUCK OWNERS ASSN. (1931), 49 Weybosset St., Providence 3, R. I., Joseph E. Connell, Mgr.

MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA, INC. (1933), 319 Jefferson Hotel, Columbia, S. C., William B. Love, Jr., Gen. Mgr.

ASSOCIATED MOTOR CARRIERS, INC., OF SOUTH DAKOTA (1937), Policyholders Bldg., 513 S. Main Ave., Sioux Falls, S. D., Lauren Lewis, Gen. Mgr.

TENNESSEE MOTOR TRANSPORT ASSN., INC. (1934), 518 Cotton States Bldg., Nashville 3, Tenn., J. W. Lenon, Gen. Mgr.

TEXAS MOTOR TRANSPORTATION ASSN., INC. (1932), 101½ E. 10th St., P. O. Box 92, Austin 1, Tex., James E. Taylor, Exec. Dir.

UTAH MOTOR TRANSPORT ASSN., INC. (1932), 1030 Gale Street, P. O. Box 686, Salt Lake City 4, Utah, L. Darrel Welling, Secy. Mgr.

VERMONT TRUCK & BUS ASSOCIATION, INC. (1934), 10 Park Street, St. Johnsbury, Vt., Harold G. Powell, Clerk.

VIRGINIA HIGHWAY USERS ASSN., INC. (1931), Box 1397, Jefferson Hotel, Richmond 11, Va., Randolph P. Saunders, Exec. Secy.

WASHINGTON MOTOR TRANSPORT ASSN., INC. (1923), Stabbert's Bldg., 1200 Westlake Ave., N., Seattle 9, Wash., Ray Culbertson, Secy. Mgr.

WEST VIRGINIA MOTOR TRUCK ASSN., INC. (1936), 303 Duffy St., P. O. Box 5217, Charleston, W. Va., Emmett J. Bush, Mgr. Dir.

WISCONSIN MOTOR CARRIERS ASSN. (1931), One W. Main St., Madison, Wis., John P. Varda, Gen. Mgr.

WYOMING TRUCKING ASSN. (1940), 628 West Yellowstone, Casper, Wyo., Fred E. Woodring, Secy. Mgr.

STATE AND SECTIONAL BUS ASSOCIATIONS

(Arranged by State Location)

ALABAMA BUS ASSN., 504 N. Court St., Montgomery, Ala., William F. Black, Exec. Sec.

SOUTHERN TRANSIT EQUIPMENT ASSN., 848 S. 42nd St., Birmingham, Ala., A. Taurman, Sec.-Treas.

ARKANSAS BUS AND TRUCK ASSN. (1930), 614 Wallace Bldg., Little Rock, Ark., Carroll L. Owens, Sec.-Mgr.

CALIFORNIA TRANSIT ASSN., 58 Sutter St., San Francisco 4, Cal., W. V. Hill, Mgr.

MOTOR CARRIERS ASSN. OF CALIFORNIA (1915), 918 Kohl Bldg., San Francisco 4, Cal., Arthur H. Samish, Sec.-Mgr.

CONNECTICUT MOTOR STAGE ASSNS., INC. (1922), 193 Grand St., Waterbury, Conn., Frank T. Healey, Sec.

FLORIDA BUS ASSN. (1950), Tallahassee, Fla., J. Kenneth Ballinger, Exec.-Dir.

SOUTHEASTERN BUS TRAFFIC ASSN., INC. (1943), 6 N. Rhodes Center, N.W., Atlanta, Ga., M. E. Wood, Sec.-Mgr.

ILLINOIS BUS ASSN. (1925), 523 E. Capitol Ave., Springfield, Ill., Miss Altoe Nelson, Exec.-Sec.

INDIANA BUS ASSN., INC. (1935), 218 Bankers Trust Bldg., Indianapolis 4, Ind., Harry J. Harman, Sec.

KENTUCKY PASSENGER BUS ASSN. (1937), 261 West Short St., Lexington 15, Ky., Harold J. Utter, Sec.-Treas.

NEW ENGLAND BUS ASSN., 10 State St., Boston, Mass., Frank Daniels, Exec.-Sec.

NEW ENGLAND TRANSIT CLUB, 10 High St., Boston, Mass., Harold R. Benson, Sec.

MARYLAND MOTOR BUS OPERATORS ASSN., INC., 55 E. Washington St., Hagerstown, Md., F. D. Spofford, Sec.

MICHIGAN MOTOR BUS ASSN. (1921), 404 Hollister Bldg., Lansing, Mich., Robert H. Ethridge, Jr., Exec.-Sec.

MIDWEST TRANSIT ASSN., c/o Kansas City Public Service Co., Kansas City, Mo., Albert H. Wood, Sec.

NEW JERSEY MOTOR BUS ASSN., INC. (1935), 26 Journal Square, Jersey City, N. J., Nathaniel L. Fish, Sec.-Treas.

INTERCITY BUS TRAFFIC ASSN. OF NEW YORK STATE, INC. (1938), 901 Home Savings Bank Bldg., Albany 7, N. Y., Mildred Kling, Sec.

NEW YORK STATE MOTOR BUS ASSN., INC. (1934), 202 Walbridge Bldg., Buffalo 2, N. Y., Charles F. Kenney, Treas.

OHIO MOTOR BUS ASSN. (1922), 209 S. 3rd St., Columbus 15, Ohio., R. J. Lewis, Sec.-Treas.

NORTHEASTERN BUS TRAFFIC ASSN., 2341 Carnegie Ave., Cleveland 15, Ohio, R. H. Frese, Sec.

ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC. (1932), 236 Oklahoma Natural Bldg., Oklahoma City, Okla. W. E. Van Vacter, Sec.-Mgr.

OREGON BUS ASSN. (1933), 509 S.W. Taylor St., Portland 4, Ore., H. F. Burrows, Sec.-Treas.

PENNSYLVANIA BUS ASSN. (1923), Commerce Building, 2nd & Pine Sts., Harrisburg, Pa., Jennie B. Brugnoni, Asst. Sec.-Treas.

TRI-STATE MAINTENANCE ASSN., c/o Southern Pennsylvania Bus Co., Chester, Pa., William H. Powelson, Sec.-Treas.

VIRGINIA PASSENGER BUS ASSN., 3303 Monument Avenue, Richmond, Va., Harris Mitchell, Exec.-Sec.

MOTOR COACH ASSN. OF WASHINGTON (1920), 201 Capitol Park Bldg., Olympia, Wash., H. F. Josefsky, Sec.-Mgr.

WEST VIRGINIA BUS ASSN. (1924), P. O. Box 1267, Charleston 25, W. Va., M. S. Aldrich, Mgr. Dir.

LOCAL FLEET ASSOCIATIONS

SOCIETY OF FLEET SUPERVISORS OF GREATER MIAMI, c/o City of Miami Fire Dept., Miami, Fla., Captain J. Singleton, Pres.

ASSN. OF FLEET MAINTENANCE SUPERVISORS (OF BOSTON), c/o P. B. Mutrie Motor Transportation, Inc., 83 E. Cottage St., Dorchester, Mass., F. A. Shannon, Pres.

MIDWEST FLEET SAFETY SUPERVISORS' ASSN., P. O. Box 5066, Industrial Station, St. Paul, Minn., G. H. Becker, Secy.-Treas.

MOTOR TRUCK MAINTENANCE CLUB OF NEW YORK (1925), c/o Esso Standard Oil Co., 4609 69th St., Woodside, N. Y., J. P. Danielson, Sec.

SOCIETY OF FLEET SUPERVISORS (OF NEW YORK) (1945), c/o Hegeman Farms Corp., 1624 Centre St., Ridgewood, N. Y., J. M. Kavanagh, Sec.

TRUCK AND BUS MAINTENANCE ASSN. OF BUFFALO (1945), 226 Ohio St., Buffalo 4, N. Y., Charles J. Palisano, Sec.

FLEET MAINTENANCE ASSN. OF PHILADELPHIA (1948), 1831 Napfle Ave., Philadelphia 11, Pa., John R. Schaefer, Sec.

NATIONAL ASSN. OF FLEET SUPERVISORS (SEATTLE CHAPTER) (1947), c/o Pacific Telephone & Telegraph Co., Seattle 1, Wash., Newton W. Temple, Pres.

STATE HIGHWAY USERS CONFERENCES

ALABAMA: James Britton, Alabama Petroleum Industries Committee, Shepherd Bldg., Montgomery 4.

ARIZONA: C. F. Williams, c/o Fruehauf Trailer Co., 902 S. 7th St., Phoenix.

ARKANSAS: W. F. Scarborough, c/o Arkansas Petroleum Industries Committee, Rector Bldg., Little Rock.

CALIFORNIA: Robert S. Kirksey, Pres., Western Division Fruehauf Trailer Co., 2160 E. 25th St., Los Angeles.

COLORADO: E. L. Reilly, Colorado Motor Carriers Assn., 407 Denham Bldg., Denver 2.

CONNECTICUT: (Temporarily Vacant)

DELAWARE: Ralph Peters, Delaware Farm Bureau, 313 S. State St., Dover.

FLORIDA: C. A. Gertner, c/o Florida Trucking Assn., Inc., 218 W. Church St., P. O. Box 238, Jacksonville.

GEORGIA: Walter McKee, Exec. Secy., Ga. Independent Oil Men's Assn., 341 Park Ave., S. E., Atlanta.

IDAHO: (Temporarily Vacant)

ILLINOIS: Miss Altoe Nelson, c/o Illinois Bus Assn., Leland Bldg., Springfield.

INDIANA: Leland K. Fishback, c/o Indiana Petroleum Industries Committee, Circle Tower, Indianapolis 4.

IOWA: Clint A. Allen, c/o Iowa Limestone Assn., 400 Teachout Bldg., Des Moines.

KANSAS: John W. Harvey, Kansas Motor Carriers Assn., 503 New England Bldg., Topeka.

KENTUCKY: Lew Ullrich, c/o Kentucky Motor Transport Assn., Republic Bldg., Louisville.

LOUISIANA: J. R. Major, Louisiana Petroleum Industries Committee, 404 La. National Bank Bldg., Baton Rouge.

MAINE: Leroy T. Snowdon, c/o Maine Petroleum Industries Committee, 283 Water St., Augusta.

MARYLAND: J. C. Darrell, c/o Automotive Trade Assn. of Maryland, Suite 336, Belvedere Hotel, Baltimore.

MASSACHUSETTS: Richard F. Paul, c/o Massachusetts Petroleum Industries Committee, 11 Beacon St., Boston 8.

MICHIGAN: (Temporarily Vacant)

MINNESOTA: H. M. Whisman, c/o Minnesota Petroleum Industries Committee, Builders Exchange Bldg., Minneapolis 2.

MISSISSIPPI: Walter D. May, Mississippi Petroleum Industries Committee, 1204 Deposit Guaranty Bank Bldg., Jackson.

MISSOURI: D. G. Spencer, c/o Missouri Petroleum Industries Committee, Rms. 320-321 Hotel Governor, Jefferson City.

MONTANA: John J. Jewell, c/o Montana Automobile Dealers Assn., P. O. Box 1005, Gold Block, Helena.

NEBRASKA: H. H. Hahn, c/o Nebraska Petroleum Marketers Assn., Inc., 817 Trust Bldg., Lincoln 8.

NEVADA: Jerry Monaghan, c/o General Petroleum Corp., Reno.

NEW HAMPSHIRE: A. J. Staby, c/o New Hampshire Truck Owners Assn., 275 Hanover St., Manchester.

NEW JERSEY: W. J. Gaffney, New Jersey Petroleum Industries Committee, 318-319 Trenton Trust Bldg., Trenton.

NEW MEXICO: Fred Linn, c/o New Mexico Petroleum Industries Committee, 407-8 Sunshine Bldg., P. O. Box 1666, Albuquerque.

NEW YORK: Charles Henderson, c/o New York State Automobile Dealers Assn., 190 State St., Albany.

NORTH CAROLINA: Mrs. Margaret Caldwell, c/o North Carolina State Grange, Piedmont Bldg., Greensboro.

NORTH DAKOTA: H. H. Janke, North Dakota Motor Carriers Assn., Minot.

OHIO: J. Russell Lloyd, c/o Ohio State Automobile Assn., 50 W. Broad St., Columbus.

OKLAHOMA: Tom Rucker, Oklahoma Press Assn., 800 Biltmore Hotel, Oklahoma City.

OREGON: Sid King, Oregon Motorist, 1101 S.W. Washington St., Portland.

PENNSYLVANIA: R. B. Maxwell, c/o Pennsylvania Motor Federation, State St., Bldg., State & 3rd Sts., Harrisburg.

RHODE ISLAND: Joseph E. Connell, c/o Rhode Island Truck Owners Assn., 49 Weybosset St., Providence.

SOUTH CAROLINA: John T. Melton, Jr., c/o South Carolina Petroleum Industries Committee, 900 Liberty Life Bldg., Columbia 7.

SOUTH DAKOTA: E. W. Stephens, c/o South Dakota Petroleum Industries Committee, Hengel Bldg., Pierre.

TENNESSEE: Charles C. Gilbert, Jr., c/o Tennessee Petroleum Industries Committee, Rm. 510, Cotton States Bldg., Nashville.

TEXAS: Carl C. Hardin, Private Truck Owners Assn., of Texas, P. O. Box 1091, Austin.

UTAH: Lyle D. Sarvis, c/o Utah State Automobile Association, 30 E. 4th St., South, Salt Lake City.

VERMONT: (Temporarily Vacant)

VIRGINIA: John E. Raine, c/o Automotive Trade Assn., of Virginia, 1800 W. Grace St., Richmond.

WASHINGTON: Douglass Shelor, c/o (AAA) Automobile Club of Washington, 1109 Pine St., Seattle 1.

WEST VIRGINIA: Francis C. Farley, c/o West Virginia Petroleum Assn., Rm. 709, Atlas Bldg., Charleston 1.

WISCONSIN: Stuart B. Wright, c/o Wisconsin Division, American Automobile Assn., 108 North Hamilton St., Madison 3.

WYOMING: (Temporarily Vacant)

SAE LOCAL SECTIONS AND GROUPS

ATLANTA: Z. T. Layfield, Layfield's Garage, Inc., 141 Marietta St., N. W., Atlanta 3, Ga.

BALTIMORE: R. L. Ashley, Ashley Chevrolet Sales, Inc., 2001 N. Broadway, Baltimore 10, Md.

BRITISH COLUMBIA: John B. Tompkins, British Columbia Section, SAE, 1010 Dominion Building, 207 W. Hastings St., Vancouver, B. C., Canada.

BUFFALO: C. J. Lane, 1807 Elmwood Ave., Buffalo 7, N. Y.

CANADIAN: F. G. King, Maclean-Hunter Publishing Co., Ltd., 481 University Ave., Toronto 2, Ont., Can.

CENTRAL ILLINOIS: M. M. Gilbert, 175 North St., Peoria, Ill.

CHICAGO: F. E. Ertsman, Chicago Section, SAE, 1420 Fisher Bldg., 343 S. Dearborn St., Chicago 4, Ill.

CINCINNATI: L. W. Thorne, 615 Maple Ave., Cincinnati 29, Ohio.

CLEVELAND: Miss C. M. Hill, 7016 Euclid Ave., Room 210, Cleveland 3, Ohio.

COLORADO: F. E. Raglin, Public Serv. Co. of Colorado, 1110 W. Third Ave., Denver, Colo.

DAYTON: F. W. Brooks, 1651 Windsor Rd., Dayton 6, Ohio.

DETROIT: Mrs. S. J. Duvall, 100 Farnsworth Ave., Detroit 2, Mich.

HAWAII: Charles R. Baptiste, Schuman Carriage Co., Ltd., Beretania & Richards St., P. O. Box 2420, Honolulu, T. H.

INDIANA: R. P. Atkinson, 6217 N. Delaware St., Indianapolis 20, Ind.

KANSAS CITY: Donald G. Reed, 1113 Minnesota Ave., Kansas City, Kan.

METROPOLITAN: F. F. Smith, Society of Automotive Engineers, 20 W. 39th St., N. Y. 18, N. Y.

MID-CONTINENT: H. C. Baldwin, 609 W. South Ave., Ponca City, Okla.

MILWAUKEE: R. K. McConkey, 715 N. Van Buren St., Milwaukee 2, Wis.

MOHAWK-HUDSON: Frank Baker, 1152 Baker Ave., Schenectady 8, N. Y.

MONTREAL: F. H. Moody, 2471 Mayfair Ave., Montreal 28, Que., Canada.

NEW ENGLAND: E. G. Moody, Edward G. Moody & Son, Inc., Daniel Webster Highway, Box 130, Nashua, N. H.

NORTHERN CALIFORNIA: Donald Wimberly, Calif. Research Corp., 200 Bush St., San Francisco 4, Cal.

NORTHWEST: A. D. McLean, 1621 45th St., S. W., Seattle 6, Wash.

OREGON: J. B. Clark, Consolidated Freightways, P. O. Box 3618, Portland 8, Ore.

PHILADELPHIA: R. W. Donahue, Sun Oil Co., Auto. Lab., Marcus Hook, Pa.

PITTSBURGH: W. J. Kittredge, Jr., 3701 Liberty Ave., Pittsburgh, Pa.

ST. LOUIS: W. H. Cowdery, 735 Brownell Ave., Glendale 22, Missouri.

SALT LAKE: D. C. Despain, Holsum Bread Co., 935 Denver St., Salt Lake City 4, Utah.

SAN DIEGO: Joseph S. Skurky, 1811 Coolidge St., San Diego 11, Cal.

SOUTHERN CALIFORNIA: F. H. Ott, 428 Woodruff Ave., Arcadia, Cal.

SOUTHERN NEW ENGLAND: A. M. Watson, 130 Porter St., Manchester, Conn.

SPOKANE-INTERMOUNTAIN: D. F. Hume, S. 1312 S. E. Boulevard, Spokane 10, Wash.

SYRACUSE: D. T. Doman, Shellmans Dr., R. D. #1, Clay, N. Y.

TEXAS: R. W. Hoyt, Double Seal Ring Co., P. O. Box 566, Ft. Worth, Texas.

TWIN CITY: S. Reed Hedges, 5133 10th Ave., S. Minneapolis 7, Minn.

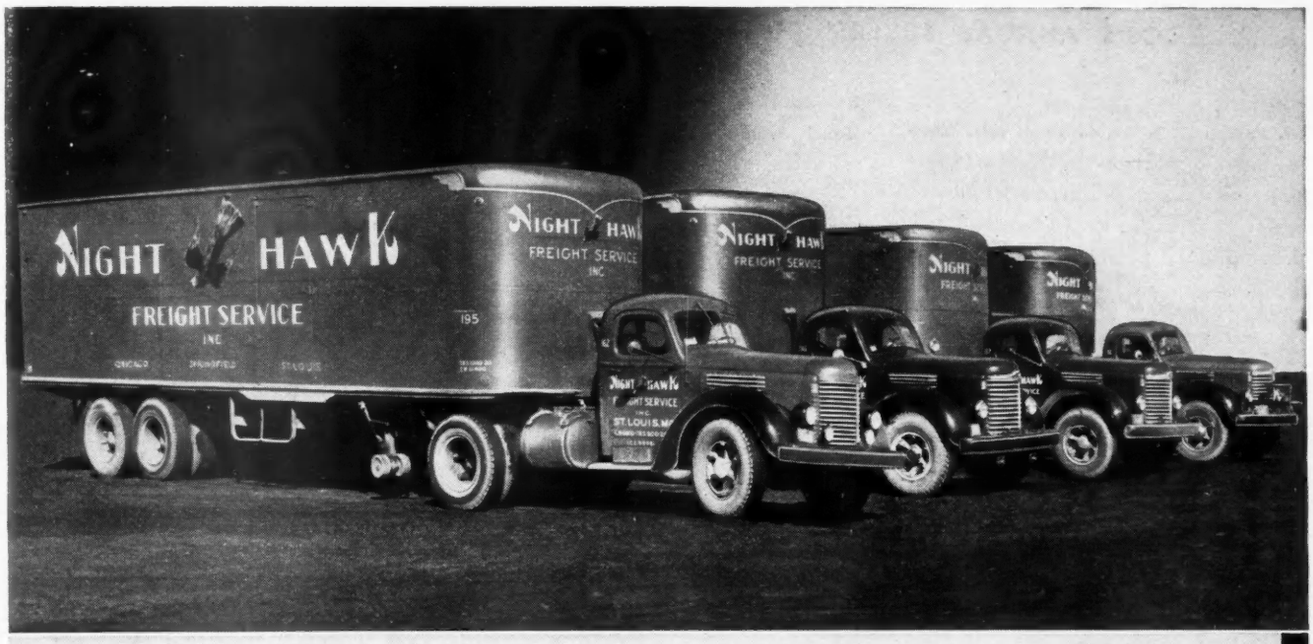
VIRGINIA: F. M. Hutcheson, Motor Parts Corp., 1839 W. Broad St., Richmond 20, Va.

WASHINGTON: J. B. Hulse, Truck-Trailer Mfrs. Assn., Inc., 809 National Press Bldg., Washington 4, D. C.

WESTERN MICHIGAN: W. H. Kennedy, 2709 Pinehurst Rd., Muskegon, Mich.

WICHITA: G. W. Jones, 225 S. Glendale, Wichita, Kan.

WILLIAMSPORT: A. E. Sieminski, 342 Eldred St., Williamsport, Pa.



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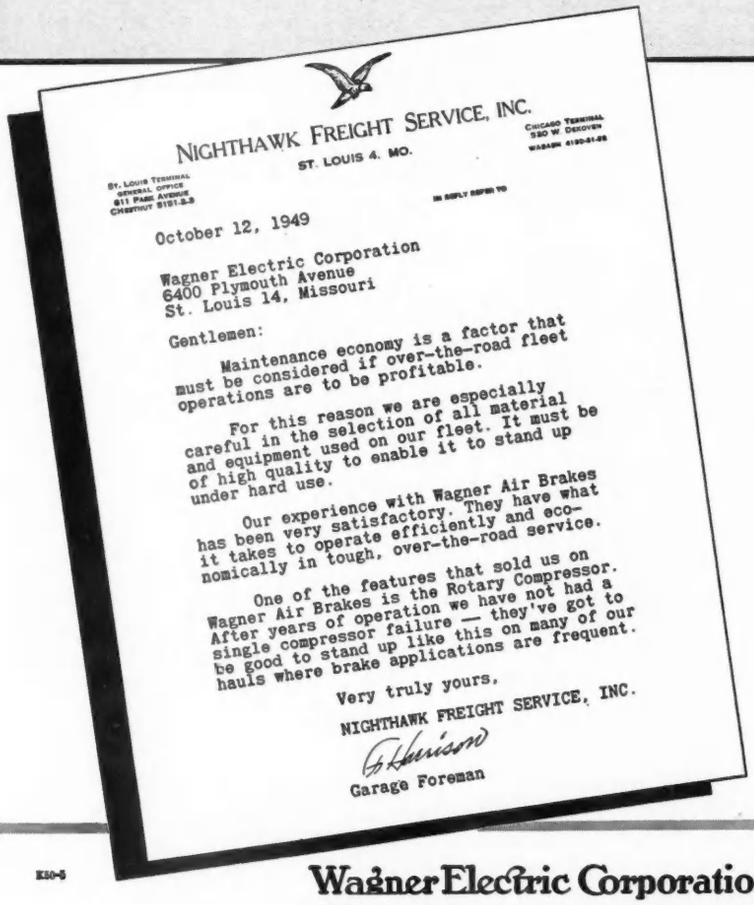


NIGHTHAWK FREIGHT SERVICE, INC.
ST. LOUIS 4, MO.

October 12, 1949

Wagner Electric Corporation
6400 Plymouth Avenue
St. Louis 14, Missouri

Gentlemen:

Maintenance economy is a factor that must be considered if over-the-road fleet operations are to be profitable.

For this reason we are especially careful in the selection of all material and equipment used on our fleet. It must be of high quality to enable it to stand up under hard use.

Our experience with Wagner Air Brakes has been very satisfactory. They have what it takes to operate efficiently and economically in tough, over-the-road service.

One of the features that sold us on Wagner Air Brakes is the Rotary Compressor. After years of operation we have not had a single compressor failure — they've got to be good to stand up like this on many of our hauls where brake applications are frequent.

Very truly yours,
NIGHTHAWK FREIGHT SERVICE, INC.
G. Harrison
Garage Foreman

FOR BRAKE SERVICE ECONOMY

...Wagner Air Brakes are YOUR BEST BUY

It takes men like Mr. F. Harrison, who are really responsible for continuous, safe fleet operation to evaluate the worth of air brakes. For braking efficiency and brake service economy, Wagner Air Brakes are your best buy because Wagner is the only system with the famous *Rotary Air Compressor.*

Cost-wise truck operators across the nation know that Wagner Air Brakes offer greater value than any other brake. For brake safety and economy install Wagner Air Brakes on your trucks, tractors, trailers and buses. When you order new equipment specify WAGNER. Write for Bulletin KU-50.

Wagner AIR BRAKES
The Only System with The Rotary Air Compressor

K50-5

Wagner Electric Corporation
6470 Plymouth Avenue, St. Louis 14, Mo., U. S. A.

LOCKHEED HYDRAULIC BRAKE PARTS and FLUID...NoRoL...CoMaX BRAKE LINING...AIR BRAKES...TACHOGRAPHS...ELECTRIC MOTORS...TRANSFORMERS...INDUSTRIAL BRAKES

CEMENT, Cast Iron—cont.

4-A Products Mfg. Co., Littleton, Colo. "Mendall Metal."
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill. "Esso."
Sauereizen Cements Co., Sharpsburg Station, Pittsburgh 15, Pa.
Smooth-On Mfg. Co., 572 Communipaw Ave., Jersey City, N. J.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Krak Mend."
Western Kelli-Metal Co., 1140 E. Ellsworth St., Denver 9, Colo. "Kelli-Metal."

CEMENT, GASKET, See Gasket Compounds

CEMENT, Rubber (Liquid)

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio. "Welltried."
Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio. "Dolfinite."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Porter Mfg. & Supply Co., 2500 W. Sixth St. Bldg., Room 301, Los Angeles 5, Calif. "Gasgacinch." (Synthetic.)
St. Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Mich. "Clair-Bond."
So-Lo Works, Inc., Loveland, Ohio.
Stay-Tite Products Co., 3107 Detroit Ave., Cleveland, Ohio. "Stay-Tite XXX."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Inc., Woodlawn Ave., 7800, Chicago 19, Ill. "Dutch Brand."
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure Rite."

CHAINS, Timing

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Morse."
Chain Belt Co., 1733 W. Bruce St., Milwaukee 4, Wis. "Duckworth."
D & B Mfg. Co., 2329 Michigan Blvd., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill. "Silverstreak."
Morse Chain Co. (Div. Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. (Sole distributor to replacement trade, Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Ramsey Chain Co., Troy Rd., Albany, N. Y.
Union Chain & Mfg. Co., Sandusky, Ohio. "American."
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.

CHAINS, Tire

American Chain Div. of American Chain & Cable Co., York, Pa.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa. "Campbell," "Lug-Reinforced."
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry St., Cleveland 5, Ohio. "Cleveland-Sterling Wearwell," "Master Grip."
Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Claw."
Flower City Specialty Co., Rochester, N. Y. (Repair links.)
Hite Mfg. Co., P. O. Box 767, Chattanooga 1, Tenn.
Hodell Chain Co. Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.
Lloyd Chain Mfg. Co., Fifth & Market Sts., Marysville, Mo.
McKay Co., 1005 Liberty Ave., Pittsburgh, Pa. "McKay," "Multigrip." (Steel.)
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Peerless," "Superior," "Kwick-On," "Gumbo."
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Seattle Chain & Mfg. Co., 6921 E. Marginal Way, Seattle 8, Wash. "Round."
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made," "Tayco."
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Woodhouse Chain Works, Third St., Trenton 10, N. J.
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y.

CHAINS, ADJUSTERS, See Adjusters, Chain

CHARGERS, Battery

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Unitron."
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. "Handy."
Blitz Electric Co., 5713 Wentworth Ave., Chicago, Ill.
Edison, Inc., Thomas A., West Orange, N. J. (Trickle.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio. (Motor generator type.)
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
General Electric Co., Apparatus Dept., 1 River Road, Schenectady 5, N. Y.
Heyer Industries, Inc., 417 Cortlandt St., Belleville 9, N. Y. (Bulb and rapid type.)
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C. & C."
Motor Generator Corp., The Hobart Bros. Co., Hobart Square, Troy, N. Y.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."
Richardson-Allen Corp., 15 W. 20th St., New York 11, Calif.
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. "Electrox."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty." (Selenium & bulb type.)
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Rectox." (Copper oxide; also motor generator type.)
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio. (Bulb and rapid type.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. (Bulb and rapid type.)

CHARGERS, Battery (Fast)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Associated Equipment Co., 5147 Natural Bridge Ave., St. Louis 15, Mo. "Hartman."
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Blitz Electric Co., 5713 Wentworth Ave., Chicago, Ill.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowser Inc., 1302 E. Creighton Ave., Ft. Wayne 5, Ind.
Edison, Inc., Thomas A., West Orange, N. J.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electric Storage Battery Co., 19th & Allegheny Ave., Philadelphia 32, Pa. "Exide."
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
General Electric Co., Apparatus Dept., 1 River Road, Schenectady 5, N. Y.
Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn.
Grant Storage Battery Co., 226 N. 2 St., Minneapolis, Minn.
H & H Products Mfg. Co., 306 Boyd St., Los Angeles 13, Calif.
Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo.
Hartman Corp. of America, 5147 Natural Bridge Ave., St. Louis 15, Mo.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn. "Nu-Way."
Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C & C Charg-A-Lyzer."
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City, Okla.
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."
Richardson-Allen Corp., 15 W. 20th St., New York 11, N. Y.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

CHUCKS, Air (Tire Inflating)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Amseco, Inc., 564 W. Randolph St., Chicago 6, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Coronet Parts Mfg. Co., 951 Shepard Ave., Brooklyn 8, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. "Tru-Flate."
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Peters & Russell, Inc., 501 W. Liberty St., Springfield, Ohio. "Par."
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y. "Dubltite."

CIRCUIT Breakers, See Breakers, Circuit

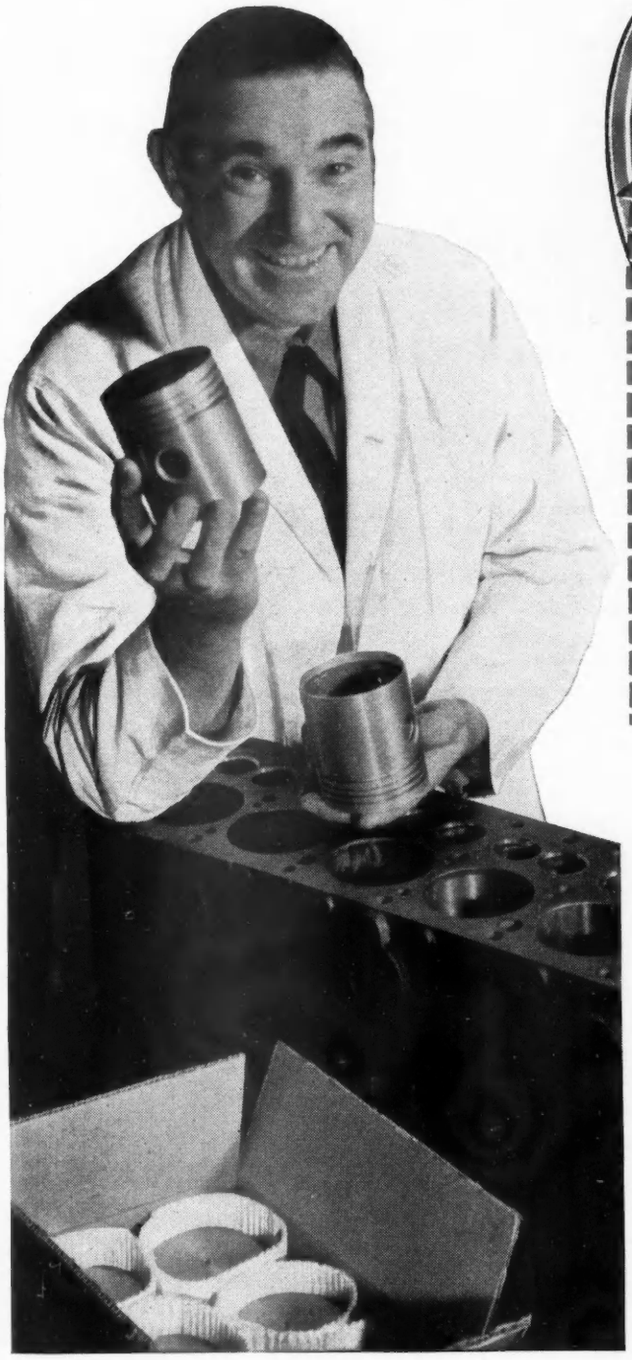
CLAMPS, Battery Hold Down

Berkson Products, Inc., 3317 W. Newport Ave., Chicago 18, Ill.
Bishman Mfg. Co., Osseo, Minn.
Callanan Mfg. Co., 80 Holten St., Danvers, Mass. "Doublex."
Champ-Items, 6191 Maple Ave., St. Louis 14, Mo.
Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Murray Corp., Towson 4, Md.
Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

CLAMPS, Brake Cylinder (Hydraulic)

Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S."

for "new-engine" pep . . .



repower with pistons of

ALCOA LO-EX

There's plenty of economical power left in many a lazy, old engine. Put it to work! Repower with aluminum pistons marked ALCOA LO-EX!

Experienced fleet men count on this familiar trade name as their guide to tough, heat-treated aluminum pistons, made of low-expansion alloy. They know it means a close piston fit with full compression. Because ALCOA LO-EX dissipates heat rapidly, engines run cooler, quieter. No hot spots to thin out lubricants!

Get more haul per overhaul! Insist on pistons of ALCOA LO-EX, cast by Alcoa, finished by famous piston makers. ALUMINUM COMPANY OF AMERICA, 1847L Gulf Bldg., Pittsburgh 19, Pennsylvania.

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Aluminum Pistons of ALCOA LO·EX

CLAMPS, Brake Cylinder (Hydraulic) —continued

Eis Automotive Corp., Middletown, Conn.
Murray Corp., Towson 4, Md.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CLAMPS, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Cal. "Thomason."

CLAMPS, Hose

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y. "WrapLock."
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
American Stamping Co., 310 E. Burnham St., Battle Creek, Mich.
Blaisdell Mfg. Co., 1404 Alamitos Ave., Long Beach 13, Calif.
Breeze Corps., Inc., Aircraft Standard Parts Div., 41 S. Sixth St., Newark 7, N. J. "Aero-Seal."
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
Carston Mfg. Co., 431 W. 28th St., New York 1, N. Y.
Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Allsize," "Inner-Seal," "360."
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y. "Sure-grip."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everhot." (Radiator; "Everhot" heater.)
Exola Products, Inc., 2423 E. 57th St., Los Angeles 11, Calif. "King Clamp."
Garrett Co., George K., D & Tioga Sts., Philadelphia 34, Pa. "Diamond G."
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio. "Quick as Wink."
Ideal Corp., 435 Liberty Ave., Brooklyn 1, N. Y. "Fitzall," "Ideal," "Snaplock," "Airline," "Wrap-Round."
Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Marman Products Co., 940 W. Florence Ave., Inglewood, Cal.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
Murray Corp., Towson 4, Md. "Wire Grip."
Perfect Parts, Inc., 53 Amsterdam Ave., New York, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio. "Speed Clamps."
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich. "Double-Tite."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y. (Heater.)
Williams Products Co., H. E., 100 S. Main St., Carthage, Mo.
Willows Mfg. Co., 341 39th St., Brooklyn 32, N. Y. "Evrysize," "Grip-Tite."
Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill. "Noc-Out," "Star."

CLEANERS, Air, Carburetor

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Air Cleaner Service Co., 1717 S. Acoma St., Denver 10, Colo. "Cyclone."
Dollinger Corp., 20 Center Pk., Rochester 3, N. Y. "Staynew."
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn. "Donaldson Oil Washed."
Electric & Carburetor Engrg. Co., 2321 E. Eighth St., Los Angeles 21, Calif. "Tattersfield."
Fram Corp., East Providence 16, R. I.
Houdaille-Hershey Corp., North Chicago Div., 1900 Foss Park Ave., North Chicago, Ill.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Red Devil Tools, Coit St., Irvington 11, N. J. (Refills.)
Thickstun Mfg. Co., 118 Lomita St., El Segundo, Calif.
United Specialties Co., United Air Cleaner Div., 9705 Cottage Grove Ave., Chicago 28, Ill. (Oil.)
Vortox Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath.)

CLEANERS, Air (Crankcase Breather)

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Fram Corp., East Providence 16, R. I.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.

CLEANERS, Carburetor (Chemical)

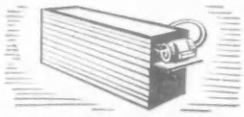
Commercial Solvents Corp., 17 E. 42 St., New York 17, N. Y. "Nor'way."
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass. "Gunk H-S."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Drew Ameroid."
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Carburex."
Excello Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xpel-It."
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y. "FO."
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zof."
Industrial Chemicaal Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Moto-Vim Mfr's., Inc., 11 Lake St., Oak Park, Ill.
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solvo."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
United States Aviex Co., 1350 Maple St., Niles, Ohio.
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

CLEANERS, Chemical—See Solvents, Oil, Carbon & Grease

CLEANERS, COOLING SYSTEM—See Flushers, Radiator and Block (Portable)

CLEANERS, Differential and Transmission—See Flushers, Differential and Transmission

CLEANERS, Engine, Chassis and Fender



Aeroil Products Co., Wesley St., South Hackensack, N. J.
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. "Viscucleaner." (Steam.)
Chem-Therm Mfg. Co., Pasadena, Calif.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kleaner." (Hot vapor spray; also portable steam.)
Curran Corp., Lawrence, Mass. (Cylinder head cleaning kits.)
Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam.)
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny."
Hydro-Air Cleaning Systems, Inc., 11921 Mile Ave., Cleveland 5, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Steam.)
Oakite Products, Inc., 22 Thames St., New York 6, N. Y. (Steam.)
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer Flo."
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick Steam." (Steam.)
Super Mold Corp., 420 N. Sacramento St., Lodi, Calif. "Lodi." (Steam.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.

CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon and Grease)

American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Deoxidine," "Ridoline," "Trisila."
Anti-Rust Corp., 315 E. 91st St., New York, N. Y. "Rozene."
Bruce Products Corp., Howell, Mich. "Bruko."
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J. "Calsol."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y. "Tergitol."
Champion Products, Inc., P. O. Box 291, Stephenville, Texas.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Dearborn Chemical Co., 310 S. Michigan Ave., Chicago 4, Ill.
Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Perm-A-Clor," "Triad."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Dyna Sprex."
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.
du Pont de Nemours & Co., E. I., Grasselli Chemical Dept., du Pont Bldg., Wilmington 98, Del. "Duclean" (Alkaline and acid.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Hanson-Van Winkle-Munning Co., Matawan, N. J. "Matawan."
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
Homestead Valve Mfg. Co., Hypressure Jenny Div., Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Houghto Clean," "Cerfak."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "Phosmul," "Prepaint."
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Kelley Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand."
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y. "Lemco."
Lavo Co. of America, 300 W. Seventh St., Milwaukee 3, Wis. "Mirifik."
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Neilson Chemical Co., 6564 Benson St., Detroit 7, Mich. "Alumiprep."
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume," "Northwest."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich. "Parco."
Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Penesolve."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake."
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa. "Metso."

NATURE'S BEST IS TOUGH TO BEAT

A SCARLET TANAGER WHICH SUMMERS IN NOVA SCOTIA MAY WINTER AS FAR SOUTH AS PERU, RETURNING ANNUALLY TO THE VERY SAME NEST! EVEN WITH THE COSTLIEST, MOST MODERN INSTRUMENTS, AN AVIATOR MIGHT FAIL TO EQUAL THAT FOR ACCURACY. SCIENTISTS CANNOT EXPLAIN HOW SCARLET TANAGERS NAVIGATE THOUSANDS OF MILES BACK TO A PIN POINT ON THE GLOBE!

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STARTS WITH NATURE'S FINEST CRUDE

MAKES A TOUGHER OIL

Naturally-tough Bradford, Pa., crude gives VEEDOL 90 H. D. the extra toughness of its fighting "Film of Protection" for greater mileage between overhauls. This naturally more-stable crude is expertly refined and blended with scientifically-selected additives to reduce sludge and gum formation, protect bearings from corrosion, minimize lacquering of pistons and valve stems . . . even under full-throttle operation!

100% BRADFORD, PENNSYLVANIA VEEDOL 90 H. D. CLEANS AS YOU DRIVE

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"GOOD . . . for a long safe ride!"

VEEDOL
OILS AND GREASES

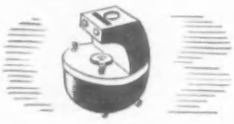
TIDE WATER ASSOCIATED OIL COMPANY

17 Battery Place, New York 4, N. Y. • Thompson Building, Tulsa 2, Oklahoma • 79 New Montgomery Street, San Francisco 20, Calif.

CLEANERS, Metal—cont.

Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 57."
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Porokleen."
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Krome-Kote."

CLEANERS, Spark Plug



AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Handy."
Master Products Mfg. Co., 3480 E. 22nd St., Los Angeles 23, Calif. "Twin-Jet."
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."

CLIPS, Spring

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
National Formetal Div., Federal-Mogul Corp., 6600 Meta Ave., Cleveland 14, Ohio.
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Service Spring Co., Box 638, Indianapolis 6, Ind. "Hendrix."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. "Easy-On."

CLUTCHES

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Auburn Clutch Co., Div. of Dana Corp., 4100 Bennett Ave., Toledo 1, Ohio.
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill. "B. & B."
Dynamatic Corp., 3307 14th Ave., Kenosha, Wis. (Induction.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y.
Long Mfg. Div. Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck, tractor and bus.)
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe." (Truck and bus.)
Stearns Magnetic Mfg. Co., 634 S. 28th St., Milwaukee 4, Wis. (Magnetic.)
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.
V-Belt Clutch Co., 3757 Wilshire Blvd., Los Angeles 5, Calif. "Ball-Lok."
Webster Mfg., Inc., Tiffin 16, Ohio.

CLUTCH ALIGNMENT TOOLS—See Tools, Clutch Alignment

CLUTCH FACINGS, See Facings, Clutch

CLUTCH REBUILDING MACHINES—See Machines, Clutch Rebuilding

COCKS, Pet (Drain, Gasoline, Air, etc.)

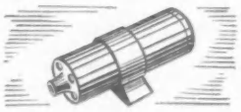
Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.
Commonwealth Brass Corp., Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)
Consolidated Brass Co., Summit Ave. & Wabash Ry., Detroit 9, Mich.
Curtis Automotive Devices, Inc., 1000 R St., Bedford, Ind. (Block, radiator and heater.)
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Gasoline.)
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.
Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit 9, Mich.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

COILS, Field

Arrow Armatures Co., 15 Fordham Road, Boston 34, Mass.
General Armature & Mfg. Co., Mill Hall, Pa.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.

COILS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
O.S.M. Electric Corp., 6209 Hamilton Ave., Detroit 2, Mich.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Regular and high Speed.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fairlawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
New York Coil Co., Mont Clare, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. "P.P.P."
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.



Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y. "Blue Streak." "Standard."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

COIL TESTERS—See Instruments, Electrical Circuit Testing

COMBUSTION ANALYZERS—See Analyzers, Combustion

COMMUTATORS, Electric Motor

Cameron Electrical Mfg. Co., 205 Main St., Ansonia, Conn.
Carty Electric and Armature Service, Inc., 1608 14th St., N.W., Washington, D. C.
Electric Materials Co., Clay & Washington Sts., North East, Pa.
Simmons Mfg. Co., Ashland, Ohio. (For Ford and Chevrolet cars.)
Toledo Standard Commutator Co., 1111 Beehler Ave., Owosso, Mich. "Hillsdale," "Homer."

COMPOUNDS, Battery Terminal Anti-Corrosive

Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. "Arsco Anti-Korode."
Champion Products, Inc., P. O. Box 291, Stephensville, Tex.
Gould Storage Battery Co., First National Bank Bldg., St. Paul 1, Minn.
Korodicator Div., Knight Machine & Tool Co., 9615 Meech Ave., Cleveland 5, Ohio.
Noco Co., 2074 E. 65th St., Cleveland 36, Ohio.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Krode Kure."
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.

COMPOUNDS, Car Washing, See Detergents, Car Washing and Soaps, Car Washing.

COMPOUNDS, Crankcase Sludge Removing

A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Mity-Mite."
Alox Corp., 70 Pine St., New York 5, N. Y.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Champion Products, Inc., P. O. Box 291, Stephensville, Tex.
Curran Corp., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Hi-Rev."
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis. "Lubaid T."
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus 755."
National Refining Co., 500 Hanna Bldg., 14th & Euclid Ave., Cleveland 15, Ohio. "Enarco-Solv."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Permatex Co., Sheepshead Bay, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Loosite."
Quaker Oats Co., Chemical Div., Chicago, Ill. "Furfural."
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "3 in 1 Nu-Power."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
Rust Master Chemical Corp., 712 Beacon St., Boston, Mass. "Six Master."
Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Runzit."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

COMPOUNDS, Radiator Rust Preventing, See Rust Preventatives, Cooling System.

COMPOUNDS, Rubbing and Polishing

Atomix, Inc., Box 486, Wilmington 99, Del. "Atolak."
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Speedite."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Plastic Gloss."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4. Mich.
Do-Mor, Inc., 1121 Fourth Ave., Rockford, Ill.
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del. "No. 7."
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del. "Duco."
Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit, Mich.
Finch, Ltd., Leon, 728 E. 59th St. Los Angeles 1, Calif. "Syn-Rub," "Quik-Rub."
Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.

"A USED TRUCK I BOUGHT LAST YEAR ALREADY HAD BENDIX-WESTINGHOUSE AIR BRAKES . . .

Savings on that ONE Truck CONVINCED ME!"

Running a small fleet of trucks calls for some mighty close figuring if you are going to realize the maximum profit on every job. That's why old hands in the trucking business install Bendix-Westinghouse Air Brakes—they *know* they can depend on extra savings. When you total up those savings in maintenance and parts replacement costs, plus the value of the added time on the job, you realize what a good business investment Bendix-Westinghouse Air Brakes can be. Drivers prefer them, too, because the added confidence and reduced physical and mental strain mean better road time. Whether for old or new trucks, be sure of the best—always specify Bendix-Westinghouse Air Brakes.

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BENDIX-WESTINGHOUSE AIR BRAKES
GENUINE
REG. U.S. PAT. OFF.

THE BEST AIR BRAKE IS
Bendix-Westinghouse

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY
ELYRIA, OHIO

COMPOUNDS, Rubbing and Polishing—continued

Glisten Co., 13 Barnard St., Hillsdale, Mich.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lee Corp., 997 Jefferson Ave., Brooklyn 21, N. Y.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
McAleer Mfg. Co., Box 149, Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz" (Polishing; "Simoniz Kleener" & "Lacker Rubb" rubbing.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

COMPOUNDS, Tire Repair

Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Even-Air Corp., Caldwell, N. J.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
Lee Rubber & Tire Corp., Conshohocken, Pa.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Woodlaawn Ave., 77th to 78th St., Chicago, Ill. "Dutch Brand."

COMPOUNDS, Valve Grinding

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Harrison & Co., P. O. Box 457, Haverhill, Mass. "4A."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

COMPOUNDS, Welding

Ensign Products Co., 3528 E. 76th St., Cleveland 15, Ohio.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. "Marquette Spatter-Shield."
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio. "No-Spat." (To prevent bonding of spatter to parts.)
Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. ("Flash-Ex," to prevent bonding of flash to dies; "Spatter-Ex," to prevent bonding of spatter to parts.)
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Anti-Spatter." (To prevent bonding of spatter to parts.)

COMPRESSION GAGE—See Gages, Cylinder Compression

COMPOUNDS, Windshield Sealing

Foster & Kester Co., Inc., 2601 N. Broad St., Phila. 32, Pa. "Sealzit."

COMPRESSORS, Air

Air-Flo Compressor Co., 357 W. Thornton St., Akron 7, Ohio.
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J. "American Fairhurst."
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, Ill. "Kellogg-American."
Beach-Russ Co., 62 Church St., New York 7, N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. (For operating spray equipment.)
Black Mfg. Co., 100 Dairy Road, Parkton 63, Md.
Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill.
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.
Campbell-Hausfeld Co., 801 Moore St., Harrison, Ohio. "Pressure Queen."
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy."
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Davey Compressor Co., Kent, Ohio.
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Detroit Air Compressor Co., 89 E. Baltimore Ave., Detroit 2, Mich. "Daco."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit," "Elsco," "Wilmington."
Gardner-Denver Co., S. Front St., Quincy, Ill.
Gast Mfg. Corp., 103 Hinkley St., Benton Harbor, Mich.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Hayward Hallet Equipment Co., Div. of Hayward Lumber & Investment Co., 410 San Fernando Rd., Los Angeles, Calif.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.
Lynch Corp., Par Compressor Div., 3600 Summit St., Toledo, Ohio. "Par."
Motor Generator Corp., Troy, Ohio.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.
Quincy Compressor Co., 217 Main St., Quincy, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Southwest Pump Co., First and Center Sts., Bonham, Tex.
Tokheim Oil Tank & Pump Co., 1602 Wabash Ave., Fort Wayne, Ind. (Portable.)
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Westinghouse Air Brake Co., Industrial Products Div., (Wilmerding), Pittsburgh, Pa.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
Worthington Pump & Machinery Corp., Harrison, N. J. "Blue Brute."

COMPRESSORS, Air (Power Take-off Type)

Beach-Russ Co., 62 Church St., New York 7, N. Y.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Davey Compressor Co., Kent, Ohio. (Truck.)
Schramm, Inc., West Chester, Pa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

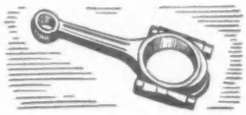
CONDENSER TESTERS, See Instruments, Electrical Circuit Testing

CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
New York Coil Co., Mont Clare, Pa. "Nycco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y. "Superseal."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

CONNECTING ROD BEARINGS, See Bearings

CONNECTING RODS



Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Lynite." (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Reconditioned, Rebabbitted.)
Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Continental Motors Corp., Muskegon 82, Mich.
Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum.)
Niagara Motors Corps., Lampshire St., Dunkirk, N. Y.
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.
Parks Engineering Co., 347 E. Ward St., Milwaukee 7, Wis. "P-A."
Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.

CONNECTORS, Electrical Circuit (Trailer)

Autac, Inc., Box 1071, New Haven, Conn. "Koiled Kords."
Berg Mfg. & Sales Co., 24 E. 18th St., Chicago 16, Ill. "Berg Royal," "Berg Shur-Lock."
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. "Hencol."
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
Scintilla Magneto Div. of Bendix Aviation Corp., Sherman Ave., Sidney, N. J. "Bendix-Scintilla."

1000-lb. weight saving cuts costs for gas and tires, adds capacity to make route selling more profitable

A truck is a selling tool in the food distribution business. The more merchandise it enables a driver to move per day, the lower its operation cost over a full route—the greater the profit!

That's why fleet owners, like the Lorenz Schneider Co., are sold on all-aluminum bodies. After three years' experience with these light-weight units, Milton V. Brown, president, writes: "I would not hesitate to recommend the Olson Kurb-Side body to anyone interested in increasing the efficiency of his operations."

Mr. Brown says their aluminum bodies "are so easy and convenient to operate that drivers actually can make more calls per day." Weight saved by aluminum means more load capacity—enough to complete a full route. Tires wear longer, gas goes farther. The Kurb-Side's extra thick aluminum alloy construction keeps repair costs low. Bodies stay beautiful, because aluminum resists corrosion.

Ask your body builder about the economies of all-aluminum construction. ALUMINUM COMPANY OF AMERICA, 1860L Gulf Building, Pittsburgh 19, Pennsylvania.

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FORMING MACHINING RIVETING WELDING

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ALCOA ALUMINUM

CONNECTORS, Electrical Circuit (Trailer)—cont.

Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. W., 11th & Cambria Sts., Philadelphia 33, Pa.

CONNECTORS, Wire, See Terminals, Wire

CONTACT POINT ALIGNING TOOLS, See Tools, Ignition

CONTACT POINT FILES, See Files, Contact Point

CONTACT POINTS, See Points (Ignition)

CONTROLS, ENGINE CUT OFF, See Switches, Ignition (Cut-Off)

COOLERS, Oil Temperature

Bell & Gossett Co., 8200 Austin Ave., Morton Grove, Ill. "B & G."
G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
Midwest Thermotrol, 111 N. Fifth St., Keokuk, Iowa. "Continental Thermotrol."
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

CORROSION PREVENTIVES, See Rust Preventives

COUPLERS, Trailer

(See also "Connectors, Electrical")

Acme Mfg. Co., 1406 Agnes St., Kansas City, Mo.
American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A. S. F."
Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill. "Dayton."
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Berluti Mfg. Co., 1023 Wheeler St., Saginaw, Mich. "Snapping Turtle." (House and utility trailer.)
Buller Mfg. Co., Hillsboro, Kan.
Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
Fruehauf Trailer Co., 10940 Harper Ave., Detroit, Mich.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis. "Bull Dog." "Back-in Hitch."
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. ("Quick-Guide" aligner.)
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Klip Lock." (Emergency chain.)
Marvel Industries, Inc., 14600 E. Seven Mile Road, Detroit 5, Mich.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich.
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Service Caster & Truck Corp., Albion, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Tow-Master Corp., 1111 N. Clark St., Chicago 10, Ill.
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal.
Wood-Williams-Capp Mfg. Co., 3239 W. Michigan Ave., Ypsilanti, Mich. "Paragon."

COVERING, Floor (Bus or Truck)

Armstrong Cork Co., Industrial Div., Lancaster, Pa. "Airoflor." "Armstrong's." "Automat." "Armoflor." "Traffex." (Linoleum.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Synthetic rubber.)

COVERS, Radiator Grille

Belmor Mfg. Co., 457 N. Oakley Blvd., Chicago 12, Ill.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich.
Henry Mfg. Co., 4215 Ave. S., Minneapolis, Minn. "Tru-Fit."
Hinson Mfg. Co., Westfield Ave. & Menges St., Waterloo, Iowa.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Automatic.)
Lipschultz Bros., 317 Sibley St., St. Paul, Minn.
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.
Protection Products Co., 2637 W. Polk St., Chicago 12, Ill.
Superior Auto Fabric Co., 2457 S. Michigan Ave., Chicago, Ill.
Temme & Co., W. H. 327 Madison St., Oak Park, Ill.

COVERS, Truck

Crawford-Austin Mfg. Co., Sixth & Jackson Sts., Waco, Tex. "Dux-Bak."
Mt. Vernon-Woodberry Mills, Inc., Mercantile Trust Bldg., N. Y., N. Y.
Pittsburgh Steel Products Co., Grant Bldg., Pittsburgh 30, Pa.
Turk Corp., C. K., 1122 Mishawaka Ave., South Bend 15, Ind. "Caravan Top."
Turner Equipment Co., 261 Hastings St., Detroit 26, Mich. "Champion."
Webb Mfg. Co., Fourth & Cambria Sts., Philadelphia 33, Pa.

CRANES, Crawler and Truck Mounted

American Hoist & Derrick Co., St. Paul 1, Minn. (Crane blocks.)
Browning Crane & Shovel Co., 16226 Waterloo Rd., N. E., Cleveland 10, Ohio.
Harben, Inc., Box 5997, Dallas, Tex.
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.; 1880 N. Adams St., Peoria 1, Ill.; 1080 Meyers St., Danville, Ill.
Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis. (Crawler.)
Link-Belt Speeder Corp., 1201 Sixth St., S. W., Cedar Rapids, Iowa.
Schield Bantam Co., Waverly, Iowa.
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y. (Also Milford crane-truck.)

CRANES, Monorail

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich.
Euclid Crane & Hoist Co., Euclid, Ohio.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Industrial Equipment Co., 315 N. Ada St., Chicago 7, Ill.
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Northern Engineering Wks., 2615 Atwater St., Detroit 7, Mich.
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.

CRANES, Portable (Hand Operated)

See also Hoists, Chain.

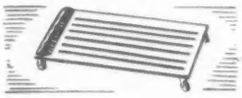
Baker Mfg. Co., 154 W. Water St., Kankakee, Ill. "Hercules."
Bradney Machine Co., 70 Monhagen Ave., Middletown, N. Y.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
Cam Tool Co., 288 12th St., Oakland, Calif. "Blue Heron."
Cardinal Corp., 633 Rice St., St. Paul 3, Minn. "Hydro-Lift." (Hydraulic.)
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "C-M."
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
Hill Acme Co., "Canton" Div., 6300 Breakwater Ave., N. W., Cleveland, Ohio.
Industrial Equipment Co., 315 N. Ada St., Chicago 7, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Hydraulic.)
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Sta., Boston, Mass.
Manley Mfg. Div. American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y. (Hydraulic.)
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Simplex."
Ruger Equipment Co., 615 W. Fourth St., Uhrichsville, Ohio.
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Service Caster & Truck Corp., Albion, Mich.

CRANES, Service Truck

Ashton Power Wrecker Equipment Co., Inc., 1701 W. Lafayette, Detroit 16, Mich.
Cam Tool Co., 288 21st St., Oakland, Calif. "Blue Heron."
Cardinal Corp., 633 Rice St., St. Paul 3, Minn.
Erie Hoist Co., 2000 Holland St., Erie, Pa.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Hubbard Mfg. Co., Farmland, Ind.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers American."
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Ruger Equipment Co., 615 W. Fourth St., Uhrichsville, Ohio. (Mydraulic.)
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill. (Sole distributors, Truckstell Co., 1672 Union Commerce Bldg., Cleveland 14, Ohio.)
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Thew Shovel Co., E. 28th St. & Fulton Rd., Lorain, Ohio. "Thew-Lorain."

CRANKSHAFT, Grinders, See Grinders, Crankshaft

CREEPERS, Repair



Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Boyco—See United States Steel Products Co., Boyle Mfg. Div.
Clinton Products Co., Clinton, Mich. "Gi-Gr-Nite," "Lo-Boy."
Huffman Mfg. Co., Davis & Gilbert Ave., Dayton 1, Ohio. (Metal, also wood.)
Hulbert Mfg. Co., 7 State Rd., S., Ashtabula, Ohio. "Smashproof." (With or without brake); "Red-Head."
Kay-Wood Products Inc., Bedford, Pa. (Wood.)
Market Forge Co., 25 Garvey St., Everett, Mass. "Maforco."
Mohler Engineering Co., 130 S. Grove St., Ypsilanti, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CUSHIONS, Seat (Rubber)

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y. "Dunlop Pillo Foam."
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. "Airfoam."
Hewitt Restfoam Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y. "Restfoam."
New York Rubber Corp. (Airubber Dept.), 100 Park Ave., New York 17, N. Y.
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex."
United States Rubber Co., U. S. Koylon Foam Div., Mishawaka, Ind. "U. S. Koylon."

CUSHIONS, Seat (Spring)

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 12, Pa.
Goshen Cushion & Body Co., N. Second St., Goshen, Ind. "Better Built."

No. 1 Ring for all replacement jobs!

RE-BORE . . . RE-RING . . . RE-SLEEVE

Here's the one ring that answers *all* replacement problems. It's the right ring for every re-bore, re-ring and re-sleeve job.

And it's chrome-faced for heavy-duty service. Hastings has added a long-wearing chromium coating which resists wear, resists scuffing, resists acids . . . an extra-hard surface which stretches expected ring life three to four times under tough, abrasive operating conditions.

It will pay you to install Hastings Piston Rings in every job. They *stop* oil-pumping, *check* cylinder wear, *restore* engine performance in trucks, buses and tractors.

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OUTSTANDING VALUE IN CAST IRON RINGS, TOO
HASTINGS DUBL-CHECK

Where price is a factor, or special conditions exist, Hastings Dubl-Check Sets are the answer. Made of high-graphitic iron, these rings seat quickly, give long and trouble-free service. You can't buy a better cast iron set.

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STEEL-VENT PISTON RINGS
Chrome-Faced for Heavy Duty Service

CUSHIONS, Seat (Spring)—cont.

Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
McInerney Spring & Wire Co., 655 Godfrey Ave., Grand Rapids, Mich. "Travel Comfort."
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Sagless Auto Seat Co., 3000 S. Archer Ave., Chicago 8, Ill. "Sagless," "Serv-U." (For trucks.)
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich.

CUTTERS, Tubing (Hand)

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Calvan Machine Products Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco." (Hand power.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kennedy Service Tools, Inc., P. O. Box 38, mogadore, Ohio.
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., Hand Tools Div., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Reed Mfg. Co., 1428 W. Eighth St., Erie, Pa.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago Ill; also 1600 E. Euclid Ave., Detroit, Mich.
Toledo Pipe Threading Machine Co., 1445 Summit Ave., Toledo 4, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Armory St. (Roxbury), Boston, Mass. "Trimo."

CYLINDER DE-GLAZERS, See De-glazers, Cylinder

CYLINDER HONES, See Hones, Cylinder

CYLINDER, Liner, See Sleeves, Cylinder

CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder

CYLINDER REBORING TOOLS, See Tools, Cylinder, Reboring (Portable)

CLYINDER RIDGE REAMER, See Reamers, Cylinder Ridge

DECALCOMANIAS

American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.
Ashley Quixign Co., 15330 Idaho St., Detroit, Mich.
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.
Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.
Jaco-Lac Decal Co., 234 S. Wells, Chicago 6, Ill.
Meyercord Co., 5323 W. Lake St., Chicago 44, Ill.
Palm Bros. Decalcomania Co., 3736 Regent St., Cincinnati, Ohio.
Palm, Fechteler Co., 220 W. 42nd St., New York, N. Y.
Permalux Co., 500 Rathbone Ave., Aurora, Ill.

DEFROSTERS, Glass Shield

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco," "Perfection."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis. (Electric.)
Henry Mfg. Co., 421 5th Ave. So., Minneapolis, Minn.
Kysor Heater Co., Hayes St., Cadillac, Mich.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass. "Signal See Kleer."
Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.

DEFROSTING FANS, See Fans, Defrosting

DEGASSERS, Bus and Truck

Consolidated Car-Heating, Inc., Albany, N. Y.
Fageol Co., R. D., 5725 Mt. Elliott Ave., Detroit 11, Mich.

DE-GLAZERS, Cylinder

Burd Piston Ring Co., 10th St. & 23rd Ave., Rockford, Ill.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Koppers Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 3, Md. "Glaze-Buster."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

DEGREASERS, See Washers, Metal Parts

DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing

DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Eis Automotive Corp., Middletown, Conn.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
New Britain Machine Co., Hand Tools Div., 140 Chestnut St., New Haven, Conn.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
Waterloo Valve Spring Compressor Co., 300 Ansborough Ave., Waterloo, Iowa. "Little Wonder."

DERRICKS, See Cranes, Service Truck

DETERGENTS, Car Washing

(See also Soaps)

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.
Atomix, Inc., Box 1126, Wilmington 99, Del. "Atolak."
Barton Products Co., 2675 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Brite Boy."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Dirt Buster."
Clayton Mfg. Co., 1363 Ellis Lane. El Monte, Calif.
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'way."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Gently."
Detrex Corp., 14331 Woodrow Wilson Ave., Detroit 32, Mich. "Drex-Foam."
Drew Co., E. F. 15 E. 26th St., New York, N. Y. "Ameroid."
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington, Del. "No. 7."
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Tresbon."
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind. "Blue Ribbon."
Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "X-100."
Kelite Products, Inc., 909 W. 60th St., Los Angeles, Calif.
Lavo Co. of America, 300 N. Seventh St., Milwaukee 3, Wis.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.
Mac's Super Gloss Co., N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master."
Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. "Wonder Weld."
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Washrite."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Penesolve."
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa. "Thermo Foam."
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa. "PN 700."
Service Supply Co., 1115 Seventh St., Denver, Colo. "Shamo."
Shur-Gloss Mfg. Co., 3555 W. Grand Ave., Chicago 51, Ill. "Shur Wonder-Wash."
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Sovasuds Car Wash."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo." "Protol."
Tudor Chemical Specialties, Inc., 229 W. 179th St., New York 53, N. Y. "Quickee."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y. "X-Karwash."
Zegol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.

DIAL GAGES, See Gages, Dial

DIESEL ENGINES, See Engines, Diesel

DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel

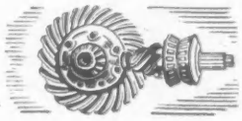
DIESEL EQUIPMENT TESTERS, See Testers, Diesel Equipment

DIESEL FUEL, See Fuels, Engine

DIESEL INJECTOR EQUIPMENT, See Injector Systems, Gasoline & Diesel Engine

DIFFERENTIAL CLEANERS, See Flushers, Differential and Transmission

DIFFERENTIALS



Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif. (Chain drive and double reduction.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. "No Spin." (Automatic locking for trucks.)
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich. (Truck.)
New Process Gear Co., 500 Plum St., Syracuse, N. Y.
Warren Gear Mfg. Co., Warren, Pa.

DIRECTIONAL SIGNAL SWITCHES, See Switches, Direction Indicating Signal

DIRECTIONAL SIGNALS, See Signals, Direction Indicating

DISCS, Abrasive Grinding

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Armour Sandpaper Works, 1355 W. 31st St., Chicago, Ill. "Alundun."
Behr-Manning Corp., Troy, N. Y. "Metalite," "Speed-Wet Metalite."
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. "Besly-Titan."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. (Also Sanding pads.)
Clover Mfg. Co., Norwalk, Conn.
Gardner Machine Co., 444 E. Gardner St., Beloit, Wis.
Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."

DISPENSERS, GREASE, See Lubricators, Portable (High Pressure)

Look the world over and you'll find no more useful or versatile motor trucks than Marmon-Herrington *All-Wheel-Drive* Fords—nor any other multiple-drive trucks so attractively priced.

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There are 30 high-performing, high-speed models to choose from in the Marmon-Herrington *All-Wheel-Drive* Ford line—95, 100, 110 and 145 hp. engines—wheelbases from 110″ to 220″—G.V.W. from 5,300 to 35,000 lbs.—from 4 to 10 forward speeds.

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SERVICE AVAILABLE AT FORD DEALERS EVERYWHERE . . .

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Marmon-Herrington *All-Wheel-Drive* Fords are, for the most part, built of standard Ford Parts. Consequently, fast, efficient, low-cost maintenance and repair service is available at Ford dealers everywhere. When, occasionally, special parts are required, they are quickly obtainable through Marmon-Herrington distributors, conveniently located in principal cities the world over.

MARMON-HERRINGTON
All-Wheel-Drive
FORDS

DISSIPATORS, Energy (Brake Auxiliary)

Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis.

DISTRIBUTOR PARTS, See Parts, Magneto, Coil and Distributor

DISTRIBUTORS, Ignition

Delco-Remy Div. General Motors Corp., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich. (Also combination governor and distributor.)
Shurhit Products Inc., Waukegan, Ill.

DISTRIBUTOR TESTING INSTRUMENTS, See Instruments, Distributor Testing

DOLLIES, Axle

Curtiss & Smith Mfg. Co., 900 Water St., Pottstown, Pa.
Saginaw Products Corp., 68 Williamson St., Saginaw, Mich. (Trailer.)

DOLLIES, Truck Wheel

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa. "A T I."
Electric Service Mfg. Co., 17 & Cambria Sts., Philadelphia 32, Pa. "Peerless."
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Immel Co., 502 N. Vermilion, Streator, Ill.
Melooz Mfg. Co., 4730 Avalon Blvd., Los Angeles, Cal.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Wats Enterprises, P. O. Box 1117, Miami 38, Fla.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

DRAINERS, Crankcase Oil (Portable and Rapid Type)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Bishman Mfg. Co., Osseo, Minn. (Hand.)
Choldum Mfg. Corp., 151 Truman St., New Haven, Conn.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco Oil-Evac."
Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo.
Holcomb & Hoke Mfg Co 1545 Van Buren St., Indianapolis, Ind. "H. & H."
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick Lube."

DRAIN PLUGS, Crankcase

Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)
Chisholm Industries, Inc., Lynn, Mass.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.
Lisle Corp., 809 E. Main St., Clarinda, Iowa (Magnetic.)
Machine Products Co., 1236 Washington Blvd., Pittsburgh 6, Pa.
Tourek Mfg. Co., J. J., 4701 W. 16 St., Chicago 50, Ill.
U. S. Plug & Fitting Co., 1807 22nd St., N. E., Canton 5, Ohio. (Magnetic.)
Universal Lubricating Systems, Inc. 747 Allegheny Ave., Oakmont, Pa. (Oversize.)

DRESSERS, Grinding Wheel

Acme Diamond Tool Co., 15 Maiden Lane, New York 7, N. Y.
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind.
Carboloy Co., 11189 E. Eight Mile Drive, Detroit 32, Mich.
Desmond-Stephan Mfg. Co., 317 S. Walnut St., Urbana, Ohio.
Dessau Co., Maurice S., 535 Fifth Ave., New York 17, N. Y.
Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.
Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich.
Industrial Diamond Co., 7 Avalon Ave., Detroit 3, Mich.
J. & S. Tool Co., 477 Main St., East Orange, N. J. "Fluidmotion."
Koebel Diamond Tool Co., 9456 Grinnel Ave., Detroit 13, Mich. "Koebelite." (Diamond.)
Last Word Sales & Engrg. Co., P. O. Box 287, Royal Oak, Mich.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.
Pratt & Whitney Div., Niles-Bement-Pond Co., Charter Oak Blvd., W. Hartford, Conn. "Diaform."
Rinck-Mackwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 3, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Diamond Tool Corp., 64 W. 48th St., New York, N. Y.
Standard Tool Co., 6900 Central Ave., Cleveland, Ohio. "Shield Brand."
Super-Cut, Inc., 3418 N. Knox Ave., Chicago 41, Ill. (Diamond.)
Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich.
Vinco Corp., 9111 Schaeffer Highway, Detroit 28, Mich.
Wheel Trueing Tool Co., 3200 W. Davison Ave., Detroit 6, Mich. "Tru-Line."

DRILL GRINDERS, See Grinder, Drill

DRILL PRESSES

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Dumore Co., 14th & Racine Sts., Racine, Wis.
South Bend Lathe Works, 342 E. Madison St., South Bend 22, Ind.
Taylor & Fenn Co., 54 Arch St., Hartford 1, Conn.
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.

DRILLS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Universal."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Cummins Portable Tools, 4740 W. Ravenswood Ave., Chicago 40, Ill.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fasco Industries, Inc., Davis & Tappin Sts., Rochester, N. Y.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock-Out."
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8 Wis.
Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass.
Signal Electric Mfg. Co., Menominee, Mich.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilDrill."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Dorn Electric Tools, Towson 4, Md. "Holgun."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

DRILLS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio. "Cleco."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. "Ideal Air Horse."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

DRILLS, Twist

Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. "Double Circle."
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill.
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Cle-Forge."
Cogsdill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich. "Black Panther," "Mercury."
Detroit Reamer & Tool Co., 2830 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T."
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "GTD."
Keystone Reamer & Tool Co., Millersburg, Pa.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
National Twist Drill & Tool Co., Rochester, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl. East Orange, N. J.
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Threadwell Tap & Die Co., Greenfield, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wendt-Sonis Co., Hannibal, Md. "W.-S." (Carbide tipped.)
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Blue Diamond," "Hercules."
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

DRIVER TESTING EQUIPMENT, See Testers, Driver

DRIVERS, Bushing

Alvord-Polk Tool Co., 110 Gearhardt St., Millersburg, Pa. "Alpo." (Sets.)
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kilare Ave., Chicago, Ill.

DRIVERS, Bushing—cont.

Mechanics Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum fins bonded to cast iron.)
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich. (Combination iron and steel.)
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. "Cannonite." (Sand cast.)
Copperweld Steel Co., Glassport Div., Glassport Pa. (Pressed steel with copper fins.)
Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)
Dail Steel Products Co., Main & Hosmer Sts., Lansing, Mich. (Pressed steel.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)
Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
Homan & Co., 920 State Ave., Cincinnati 4, O.
Hunt-Spiller Mfg. Corp., 383 Dorcester Ave., South Boston 27, Mass. "Hunt-Spiller Air Furnace Gun Iron." (For buses or trucks.)
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. "Kaloy." (For trucks and trailers.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)
Lansing Stamping Co., So. Penn Ave., Lansing, Mich. (Pressed steel.)
Motor Castings Co., 1323 S. 65th St., West Allis, Wis.
Powell Pressed Steel Co., Hubbard, Ohio. (Pressed steel.)
Reynolds Mfg. Co., 600 Prospect Ave., Springfield, Mo. "Reyco." (Specially alloyed iron.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Specially alloyed iron.)
Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

DRYING LAMPS, See Lamps, Drying, Baking and Heating

DYNAMOMETERS, Chassis Testing

Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Clayton Vehicle Analyzer." (Hydraulic.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove. Ill. (Electric and hydraulic.)
Otis Elevator Co., 260 11th Ave., New York 1, N. Y. "Otis Proving Stand."
Safety Equipment Co., 1005 S. La Fayette Blvd., South Bend 18, Ind. (Bennett-Feragen equipment for safety.)

DYNAMOMETERS, Engine Testing

Clayborne Mfg. Co., 2615 S. Michigan Ave., Chicago 16, Ill.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. (Hydraulic.) ("Clayton Vehicle analyzer.")
Dynamatic Corp., 3307 14th Ave., Kenosha, Wis.
General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y. (Electric.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Taylor Dynamometer & Machine Co., 5108 W. Center St., Milwaukee 10, Wis. "Hi-Eff."
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

ELECTRODES, Welding, See Rods, Welding

ELECTROLYTE, Battery Acid

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y. "Aero Brand."
du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington 98, Del.
Gould Storage Battery Co., Trenton, N. J.
Monsanto Chemical Co., Organic Chemicals Div., 1700 S. 2 St., St. Louis 4, Mo.

EMERY CLOTH, See Sandpaper

ENAMELS (Synthetic Resin Base)

(See also Lacquers)

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Fleet-X." Namel."
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio. "Bexco."
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Quix."
American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax."
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill. "American," "Artspar."
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio. "Synite."
Armite Laboratories, 6609 Broad St., Los Angeles 1, Calif.
Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich. "Fleet-Lux."
Baer Bros., 438 W. 37th St., New York, N. Y.
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C," "Bexolin," "Glosset."
Berry Bros., Inc., 211 Leib St., Detroit 7, Mich. "Amberry."
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass.
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Synflex."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditzco."
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit, Mich. "Don-A-Lac."
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del. "Dulux."
Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
Finch, Ltd., Leon, 728 E. 59th St., Los Angles 1, Calif. "Ply-O-Syn," "Spra-Rite." "Leosyn."
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Synco," "Raybake."
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frostex."
Glidden Co., 11001 Madison Ave., Cleveland, Ohio.
Heath & Milligan Mfg. Co., S. Normal Ave., Chicago, Ill. "Dependable."
Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
Hock Paint & Chemical Works, Inc., Box 190, Phoenixville, Pa. "Metalock."
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill. "Illbronze."
Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Polymerin."
Interchemical Corp., Murphy Paint Div., 224 McWhorter St., Newark 1, N. J. "Murphy."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Syndur."
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucoflint."
McDougall-Butler Co., 6 Evans St., Buffalo 5, N. Y.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Synthol."
Midland Paint & Varnish Co., 3801 E. 9 St., Cleveland 5, Ohio. "Hyspar."
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Morlux," "Morris."
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "Glyko."
Oxidermo Products, Inc., Springport, Mich.
Pittsburgh Plate Glass Co., Paint Div., 2000 Grant Bldg., Pittsburgh 19, Pa. "Lavax."
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich. "Permax."
Sewall Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo. "Dural."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Kem."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Stantox."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Testor Chemical Co., 2305 Charles St., Rockford, Ill. "Testor's."
United Chromium, Inc., 51 E. 42nd St., New York 17, N. Y. "Unichrom."
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Ve-Kote."
Valentine & Co., 11 E. 36th St., New York 16, N. Y. "Valenite."
Vita-Var Corp., 46 Albert Ave., Newark, N. J. "Vita-Lux."
Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-
Woolsey Paint & Color Co., C. A., 229 E. 42nd St., New York, N. Y.
Zapon Div., Atlas Powder Co., Ludlow St., Stamford, Conn. (Also "Zapon Izarine" spray finish.)

ENGINE SHUT-OFF (Automatic)

(Shuts off engine in case of low oil pressure, overheating and overturning)

Frank W. Murphy, Tulsa, Okla.
M-U Switch Corp., Canton, Mass.
Reynolds Electric Co., 2650 W. Congress St., Chicago, Ill.
Synchro-Start Products, Inc., 1046 W. Fullerton St., Chicago, Ill.
Viking Instrument Co., East Haddam, Conn.

ENGINES, Diesel (Truck and Bus)

Buda Co., 154th St. & Commercial Ave., Harvey, Ill. "Buda," "Buda Lanova."
Continental Motors Corp., Muskegon 82, Mich. "Red Seal." (Truck, tractor, bus and marine.)
Cummins Engine Co., Fifth & Wilson Sts., Columbus, Ind.
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Drive, Detroit 28, Mich.
Harnischfeger Corp., P & H Diesel Engine Div., 100 Lake St., Port Washington, Wis.
Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis. (Truck.)

ENGINES, Small (Gasoline)

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (4-cycle air-cooled.)
Clinton Machine Co., Clinton, Mich.
Continental Motors Corp., Muskegon 82, Mich.
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
Frazer Farm Equipment Co., Sixth & Ogonts Sts., York, Pa.
Gladden Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif. "Busy Bee."
Homelite Corp., Port Chester, N. Y.
International Harvester Co., Harvester Bldg., 180 W. Michigan Ave., Chicago 1, Ill.
Lauson Co., 1604 Michigan St., New Holstein, Wis.
McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.
Novo Engine Co., 702 Porter St., Lansing 5, Mich.
Reo Motors, Inc., 1331 So. Washington Ave., Lansing 20, Mich.
Universal Motor Co., 425 Universal Drive, Oshkosh, Wis.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis.
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

ENGINES, Truck and Bus (Gasoline)

(Covering independent engine manufacturers)

Aircooled Motors, Inc., Liverpool Rd., Syracuse 8, N. Y. "Franklin."

ENGINES, Truck and Bus (Gasoline)—continued

Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y.
Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
Continental Motors Corp., Muskegon 82, Mich. "Red Seal."
Fageol Products Co., 789 Stow St., Kent, Ohio.
Hall-Scott Motor Div. of ACF-Brill Motors Co., 2850 Seventh St., Berkeley 10, Calif.
Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
Le Roi Co., 1706 S. 68th St., Milwaukee 14, Wis.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis. (Truck, tractor and bus.)
Willys-Overland Motors, Inc., Wolcott Blvd., Toledo 1, Ohio.

EXHAUST GAS INDICATOR, See Indicators, Carbon Monoxide

EXHAUST GAS REMOVING SYSTEMS

Brady Products, Inc., F. E., 18 & Ebright Sts., Muncie, Ind.
Keeling & Co., Inc., 1028 Chamber of Commerce Bldg., Indianapolis, Ind.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National System of Garage Ventilation, 318 N. Church St., Decatur, Ill.

EXHAUST PIPES, See Pipes, Tail and Exhaust

EXPANDERS, Piston Ring

Antajen Industries, Ltd., 937 Post St., San Francisco 9, Calif. "Dri-Plex."
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Rollpex." (Expanding.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Royal Piston Ring Co., Bath, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon 61, Mich.
Smalley Accessories Corp., 224 W. Huron St., Chicago, Ill.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Inserts)

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Loock & Co. R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.
Simplex Piston Ring Mfg. Co., 3830 Kelly Ave., Cleveland 14, Ohio.
Thexton Mfg. Co., 1313 Winter St., Minneapolis 13, Minn.
Wel-Ever Piston Ring Co., Speilbusch Ave. nr. Jackson St., Toledo 1, Ohio. "Ezy Fit," "U-Flex."
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo. "Master Recams."
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Machines)

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. I." (Electric.)
Badger Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. (Air operated hammers.)
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. "Permasizer."
Master Products Mfg. Co., 3480 E. 14th St., Los Angeles 23, Calif.
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6653 Easton Ave., St. Louis 14, Mo. "Moog Dynamizer."
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind. "Perfect Circle Nurlizer."
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramconizer."
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Precisionurl."
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXTINGUISHERS, Fire (Portable)

Allen Mfg. Co., 566 W. Lake St., Chicago, Ill.
American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y. "Fire-Gun," "La France."
Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)
Anthes Force Oiler Co., Ft. Madison, Iowa.
Beacon Devices, Inc., 74 Olive St., North Tonawanda, N. Y. "Tireflator," "Jumbo Tireflator." (Portable units, inflates tires or extinguishes fires.)
Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.
C-O-Two Fire Equipment Co., P. O. Box 390, Newark 1, N. J.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill.
Dietz Co., R. E., 225 Wilkinson St., Syracuse, N. Y.
Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.
Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "General Quickair Fireguard."
Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich. "Pistol-Grip."
Kidde & Co., Inc., Walter, 675 Main St., Belleville 9, N. J. "Kidde."
Merlite Industries, Inc., 201 E. 6th St., New York 17, N. Y. "Presto."
Pirsch & Sons Co., Peter, 1308 35 St., Kenosha, Wis.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y.
Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
Safety Fire Extinguisher Co., 293 7th Ave., New York 1, N. Y.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

EXTRACTORS, Bolt and Screw

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Screw.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Ezy-Out."
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "Little Giant."
Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y. "Aero-Thread." (Stud.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Keystone Reamer & Tool Co., Millersburg, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin." (Screw.)
Morse Twist Drill & Machine Co., 162 Pleasant St., New Bedford, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Quality Tools Corp., New Wilmington, Pa., "Oldforge."
Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Also stud.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Screw.)
Whitman & Barnes Div. of United Drill & Tool Corp., Plymouth, Mich. (Screw.)
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. (Stud.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W.-Nelson."
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Lefty."
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio.

EXTRACTORS, Bushing

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Beard Tool Co., L. O., Andrew & Friel Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Electric Appliance Parts Co., 1561 E. 27th St., Cleveland, Ohio. "Double B & B."
Greb Co., 181 Canton St., Stoughton, Mass.
Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)

FABRIC, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)

Artcraft Fabrics, Inc., 8 W. 30th St., New York, N. Y.
Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. "Terek," "Terson." (For curtains and upholstery.)
Atlantic Mercantile Co., 109 W. 64th St., New York 23, N. Y. "Khayemite," "Omarlite," "75," "32," "Stormalite," "Stormolon." (For tops.)
Blossom Mfg. Co., 915 Broadway, New York 10, N. Y. (For curtains.)
Burlington Mills, Inc., Burlington, Wis. "Bur-Tex." (Plastic coated, for kick plates, deck seals, floor covering.)
Carpenter & Co., L. E., 170 N. Main St., Wharton, N. J. "Lactrex," "Victrex." (Vinyl; sole distributors, A. J. Auchterlonie, 537 Book Bldg., Detroit 21, Mich.)
Columbus Coated Fabrics Corp., 7th & Grant Aves., Columbus 16, Ohio. "Col-O-Tex," "Plastovin." (For upholstery.)
Cotan Corp., 331 Oliver St., Newark 5, N. J. "Co Hyde," "Cotana." (For seat covers, tops and upholstery.)
Duncan Co., W. H., 319 Broadway, New York 7, N. Y. "Dunotex."
du Pont de Nemours & Co., E. I., Fabrics Div., Empire State Bldg., New York 1, N. Y. ("Teal" Rubberized; "Fabrikoid," "Fabrilite" for upholstery or trim.)
Duro-Gloss Rubber Co., 30 Lenox St., New Haven, Conn.
Federal Leather Co., 681 Main St., Belleville 9, N. J. "Federaleather."
Goodall-Sanford, Inc., Reading Div., Reading, Mass. "Leatherwove," "Redolite."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio. "Koroseal."
Haartz Auto Fabric Co., 294 Pleasant St., Watertown 72, Mass. "Jonarts Cleaneasy," "Jonarts Harmony." (For tops and decking.)
Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.
Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for curtains, tops and upholstery.)
Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. ("Karavan" for convertible tops; "Watertyte" for top decks; "Versilan" for upholstery.)
Masland Duraleather Co., Amber & Willard Sts., Philadelphia 34, Pa. "Durasol."
Mt. Vernon-Woodberry Mills (Turner Halsey Co., Sales Agent, 40 Worth St., New York, N. Y.)
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y. (Top and decking.)
Oakland Textile Co., 379 Fourth Ave., New York 16, N. Y.
Pantasote Co., 26 Jefferson St., Passaic, N. J. "Pantasote." (For curtains and upholstery; "Russialoid" for upholstery; "Wyncote" for seats.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich. "Clair-Tex."
Textileather Corp., 607 Madison Ave., Toledo 3, Ohio. "Textileather," "Tolex."

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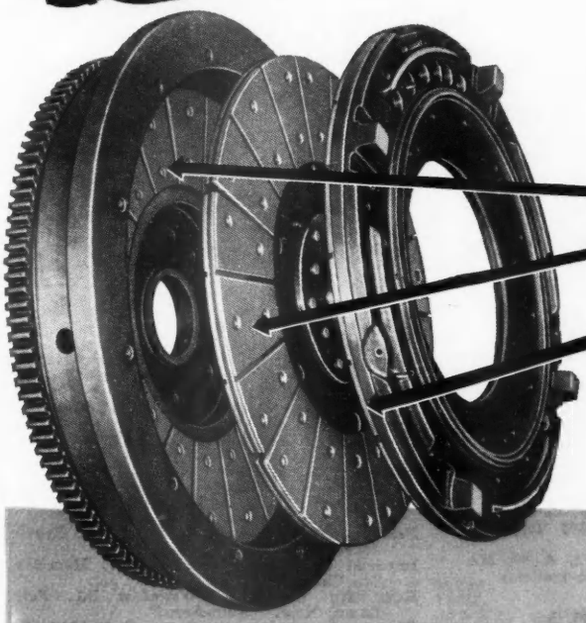

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FABRIC, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery) —continued

Tower Co., A. J., 24 Simmons St., Boston 20, Mass. "Tower Proof."
Twitchell, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. "Textilene Plastistrand." (Plastic coated, for seat covers.)
United States Rubber Co., Coated Fabrics Div., Miskawaka, Ind. "U. S. Naugahyde."

FABRICS, Uniform (Army Twill)

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.

FACINGS, Clutch (Asbestos)

American Brakeblok Div., American Brake Shoe Co., 4600 Merrit Ave., Detroit 9, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Dreadnaught."
Atlas Asbestos Co., North Wales, Pa.
Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Johns-Manville, 22 E. 40th St., New York 16, N. Y. "J-M."
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K&W."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Russell Mfg. Co., E. Main St., Middletown, Conn. "Rusco."
Thermoid Co., 200 Whitehead St., Trenton 6, N. J.
World Bestos Corp., S. 25th St., New Castle, Ind.

FACINGS, Clutch (Metallic)

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio.

FAN BELTS, See Belts, Fan

FANS, Defrosting

Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco." "Perfection."
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (For trucks and buses.)
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J. (Ventilating for buses.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Marvel."
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. "McKay." (For buses and trucks.)
Roto-Beam, 1755 N. Keeler St., Chicago 39, Ill.
Samson United Corp., 1700 University Ave., Rochester 10, N. Y. "Samson Safe-flex." (Rubber bladed.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Airfoil."
Torrington Mfg. Co., Franklin St., Torrington, Conn. "Airistocrat."
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (Vacuum, defrosting.)
Wittie Mfg. Co., 1414 S. Wabash Ave., Chicago, Ill. "Wit-Eez."

FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich. "ABC," "ABC Sirocco."
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brakeshoe."
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Buffalo Forge Co., 490 Broadway, Buffalo 5, N. Y.
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J.
Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago, Ill.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K & B."
Marathon Electric Mfg. Corp., Super Air Screw Div., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E."
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."
Western Blower Co., 1800 Airport Way, Seattle, Wash.
Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.

FANS, Radiator

De Bothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill. "De Bothezat."
Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich. "Autofan."
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford and Chevrolet cars.)
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty."
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Evans Thermo-Aire."

FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.

FENDERS

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Budd Mfg. Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K. & B." (Bus and truck.)
Metal Auto Parts Co., Chase & Henry Sts., Indianapolis 7, Ind.
Motors Metal Mfg. Co., 5936 Milford Ave., Detroit 10, Mich.
Mullins Mfg. Corp., 605 S. Ellsworth St., Salem, Ohio.
Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.
Raybestos-Manhattan, Inc., Equipment Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.)
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck.)
Stolper Steel Products Corp., 300 Tipp St., Menominee Falls, Wis.
York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)

FIFTH WHEELS, See Wheels, Fifth

FILES, Contact Point

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Rub-Stone."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Stones.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Contacto," "Tungsto," "Taconite," "Vim."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

FILTERS, AIR, See Cleaners, Air

FILTERS, Coolant

American Octanator Corp., 2107 Industrial Trust Bldg., Providence, R. I. "Gazda Derusticator." (Magnetic.)
Spark-O-Linor Corp., Minneapolis, Minn.
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. "Mota Gard."
York-Rusgo Co., 1903 W. Market, York, Pa. "Rusgo." (Mechanical type.)

FILTERS, Diesel, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
American Bosch Corp., 3664 Main St., Springfield 7, Mass.
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Commercial Filters Corp., A & W 3 Sts., Boston 27, Mass. "Fulflo."
DeLuxe Products Corp., 1435 Lake St., La Porte, Ind.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y. "Hilco."
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.

FILTERS, Gasoline

AC Spark Plug Div., General Motors Corp., 1330 N. Dort Highway, Flint 2, Mich.
Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill. (Equipped with damper.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Autopulse Corp., 218 E. Dowland St., Ludington, Mich.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. "Kem-Aero."
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles, Calif.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex."
Purolator Products, Inc., 744 Broad St., Newark 2, N. J.
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
Sparkler Mfg. Co., Mundelein, Ill.
Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo 12, Ohio. "Fil-Trap."
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

FILTERS, Oil

(See also Reclaimers, Crankcase, Oil)

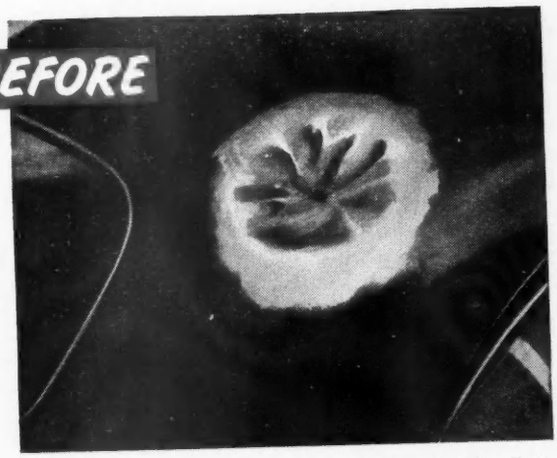
AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Bolser Corp., S. Main St., Cedar Falls, Iowa. "Re-Pak-It."

WHETHER YOU USE IT OR SELL IT—

Met-L-it's GUARANTEED PERMANENT ADHESION *Makes Extra Profits For You!*

A Met-L-it "Cold Metal" Case History

Met-L-it Repairs Deep Dent in Car Top Without Heat—Saves Cost of Removing and Replacing Interior Upholstery!



THE DEEP DENT in this top was filled with Met-L-it. No "dinging" was done, nor was it necessary to spend time removing and replacing upholstery. Here the damaged metal has been sanded clean to insure maximum adhesion of Met-L-it.

HERE Met-L-it has filled the dent and has been sanded to a perfect feather-edged contour. In the final step Met-L-it was primed and painted just as any metal. Met-L-it takes paint without blistering or checking.

*COLD METALS ARE **NOT** ALL ALIKE! ONLY MET-L-IT GIVES YOU GUARANTEED PERMANENT ADHESION*

The repair job described above cost less than half as much as one done by ordinary shop methods and is just as permanent. Met-L-it saves time and labor costs—gives extra profits. You can sand Met-L-it, file it, pound it, paint it—Met-L-it performs just like real metal because it *is* nearly all metal.

Whether you sell it or use it—get your Met-L-it supply now! Ask your supplier for WHIZ Met-L-it.

Whiz

GET IT FROM YOUR JOBBER

Member of M.E.M.A., N.S.P.A. and A.E.R.A.

R. M. HOLLINGSHEAD CORPORATION · Camden 2, N.J.

LEADER IN MAINTENANCE CHEMICALS

Canadian Offices: Toronto • Warehouses: Dallas, San Francisco, Chicago

FILTERS, Oil—cont.

Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Campbell Filter & Mfg. Co., 132 Helen Ave., Ostego, Mich.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champlab."
Commercial Filters Corp., A & W 3 Sts., Boston 27, Mass. "Fulflo."
De Luxe Products Corp., 1435 Lake St., La Porte, Ind.
Filtors, Inc., 45-22 38th St., Long Island City 1, N. Y.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I. "Col-Pak," "Fram Filcrom."
General Filters, Inc., 12890 Westwood Ave., Detroit 23, Mich.
Hilliard Corp., 113 W. 4th St., Elmira, N. Y. "Hilco."
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Michiana Products Corp., Sheet Steel Division, Michigan City, Ind. "H-W-Filter," "Michiana."
Nugent & Co., Wm. W., 410 W. Hermitage Ave., Chicago 22, Ill.
Oilpure Refiner Co., 5406 San Fernando Rd., Glendale, Calif.
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Reclaimo Mfg. Co., 5083 Elston Ave., Chicago, Ill. "Re-Claimo."
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Walker Laminar."
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.
Wix Accessories Corp., 1211 Ozark St., Gastonia, N. C.

FILTERS, Oil Refills

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Accessories Corp., 1211 Ozark St., Gastonia, N. C. "Wix Filterfil."
Air Cleaner Service Co., 1717 S. Acoma St., Denver 10, Colo. "Cyclone."
Bolser Corp., S. Main St., Cedar Falls, Iowa.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Campbell Filter & Mfg. Co., 132 Helen Ave., Otsego, Mich.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champlab."
De Luxe Products Corp., 1435 Lake St., La Porte, Ind.
Filtors, Inc., 45-22 38th St., Long Island City 1, N. Y.
Fram Corp., 55 Pawtucket St., East Providence 16, R. I. "Fram Filcron."
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Cal.
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.
Refill Filter Co., 120 Rhode Island Ave., East Orange, N. J. "Refilco."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Cal.
Wix Accessories Corp., Gastonia, N. C.

FIRE ENGINES, See Trucks, Fire

FLARES, Highway Lighting

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Ace," "King Bee Fuel-Tite," "King Bee Special." (Oil burning.)
Anthes Force Oiler Co., Ft. Madison, Iowa. (Oil burning and electric; also fusees.)
Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fusees.)
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Oil burning; also fusees.)
Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. "Carpenter Master-Lites." (Electric and electric flasher type.)
Central Safety Signal Div. of Equitable Powder Mfg. Co., Box 369, Peru, Ind. "Centralite," "Central." (Fusees type.)
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Oil burning, also fusee type.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)
Emarco Corp., Far Hills Station, Dayton 9, Ohio. "Tharo-Flare."
Embury Mfg. Co., Warsaw, N. Y.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fusees.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Lite Mfg. Co., W. C., 1050 W. Hubbard St., Chicago 22, Ill.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Standard Railway Fusee Corp., Signal Flare Div., Box 30-C, Needham Heights 94, Mass. (Fusees.)
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fusees.)
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco." (Electric.)
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. (Big Beam.)
Yankee Metal Products Corp., Norwalk, Conn.

FLARING TOOLS, See Tools, Tube Flaring

FLASHERS, for Directional Signals

Tung-Sol Lamp Wks., Inc., 95 8th Ave., Newark 4, N. J.

FLEET RECORDS, See Forms

FLOOR COVERING, See Covering, Floor

FLOOR RESURFACERS, See Resurfacers, Floor

FLOORING, Truck & Trailer

Alan Wood Steel Co., Conshohocken, Pa. "A.W." (Steel.)
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa.
Brown Trailers, Inc., Box 54, Spokane 1, Wash. "Coralite." (Aluminum alloy.)
Dow Chemical Co., Midland, Mich. (Magnesium.)
Great Lakes Steel Corp., Ecorse, Detroit 29, Mich. (Steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. "Inland 4-Way." (Steel.)
Reynolds Metals Co., Louisville 1, Ky. (Aluminum.)
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.

FLUID, Hydraulic Brake and Shock Absorber

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Carbide & Carbon Chemical Corp., 30 E. 42nd St., New York, N. Y. "Ucon." (Brake.)
Chicago Hydraulic Oil Co., 11618 S. Front St., Chicago 28, Ill. "Brakrite" (Brake: "Shockoyl," "Hijoyl," "Lojoyl" shock absorber.)
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Eis Automotive Corp., Middletown, Conn. (Brake.)
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xcelo." (Brake.)
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. ("Alrite," "Fidelity," Shock absorber; "Hydro-Loc" brake.)
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Brake.)
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kelly Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Kelco." (Brake.)
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md. (Brake.)
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Delco." (Brake.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Brake.)
Par Mfg. Co., 3765-93 St., Jackson Heights, L. I., N. Y. (Brake.)
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Porte Mfg. Co., 2930 Fulton St., Brooklyn 8, N. Y. "Porto."
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa. (Brake.)
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y. (Brake.)
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilfluid." (Brakes.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sunoco." (Shock absorber.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J. (Brake.)
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."
United States Aviex Co., 1350 Maple St., Niles, Mich. (Brake.)
V-O Mfg. Co., 13245 Sherman Ave., North Hollywood, Calif.
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th St., Chicago 19, Ill. "Dutch Brand."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Brake.)
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco."
Wilco Co., 4425 Bandini Blvd., Los Angeles, 23, Calif.

FLUID STARTING (For Diesels)

California Oil Co., The, Barber, N. J. "Chevron."

FLUSHERS, Crankcase

Gray Co., 60 11th Ave., N.E., Minneapolis 13, Minn. "Graco."
Hydro-Air Cleaning Systems, Inc., 2130 E. 105th St., Cleveland 6, Ohio.
Kerling & Co., 8319 Allport Ave., Whittier, Calif. "K & W."
Master Equipment Corp., 15 N. Broadway, Dayton, Ohio. "Flush Masters."

FLUSHERS, Differential and Transmission

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Aro Equipment Corp., Bryan, Ohio.
Circo Products Co., 6531 Euclid Ave., Cleveland, Ohio. "Circo Dee-Tee." (Solvent vapor, electrically heated.)
Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Guns.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
Gray Co., 60 11th Ave., N. E. Minneapolis 13, Minn. "Graco." (Gear flushers.)
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Flushers.)

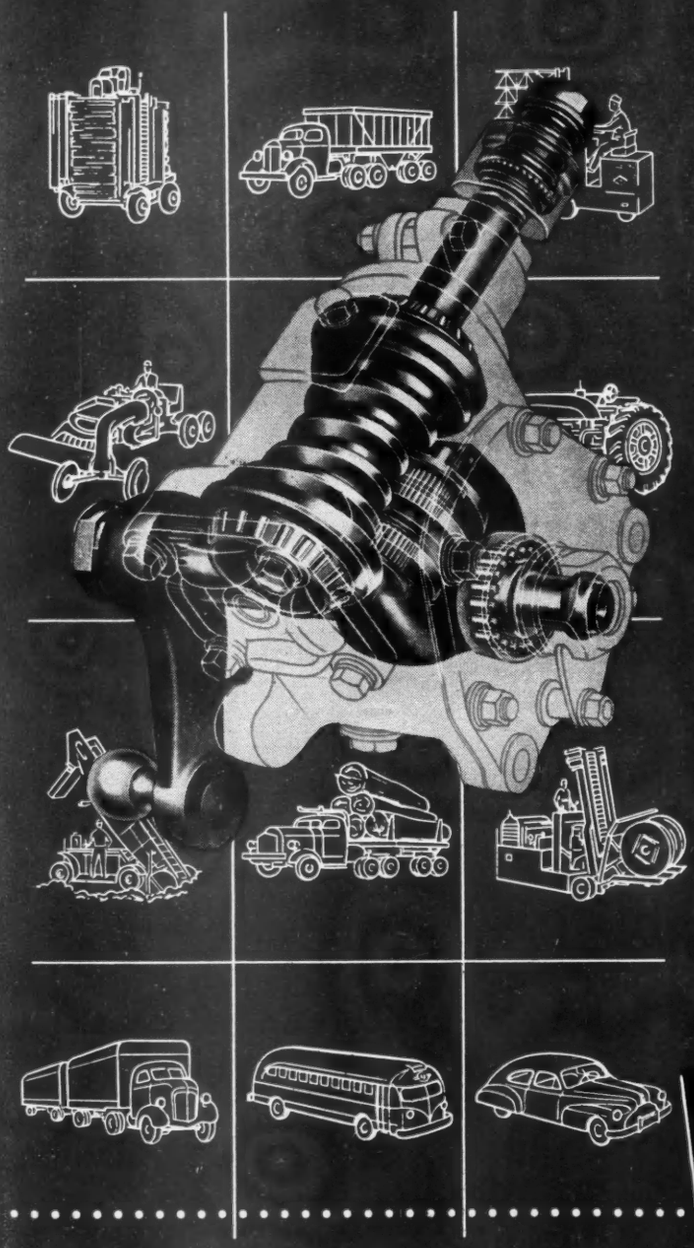
FLUSHERS, Radiator and Block (Portable)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo." (Guns.)
Brady Products, Inc., F. E., 18th & Ebright Sts., Muncie, Ind. (Electric powered unit.)
Choldum Mfg. Corp., 151 Truman St., New Haven, Conn. "Pressure Purger."
Drew & Co., E. F., 15 East 26th St., New York 10, N. Y.
Holcomb & Hoke Mfg. Co., 1545 Van Buren St., Indianapolis, Ind. "Moto Saver."
Homestead Valve Mfg. Co., (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny." (Nozzles.)
Industrial Research, Inc., 1755 S. Central Ave., Phoenix, Ariz. "Flush-O-Matic."
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

Having Hardly Any Maintenance Of Its Own

It Reduces Over-all Maintenance Of The Vehicle

Gemmer Easy Steering



Maintenance of a Gemmer Steering Gear is almost nonexistent. Lubrication and simple adjustment at long intervals . . . that's all.

Gemmer steered vehicles are easily maneuverable, substantially reducing driver fatigue, keeping the driver fresh. Alert and untired at the easily responsive wheel, he gets through heavy traffic—in and out of parking places, docks and narrow entries with much less vehicle damage. Thus, Gemmer Steering contributes to a material reduction in costly maintenance.

A fresh driver means more mileage per vehicle per day . . . additional economy.

Gemmer Easy Steering is always responsive, firm, with no rubbery feeling or wander. Hourglass worm and rolling gear tooth sector almost eliminate friction. Strength is abundant and there is plenty of power for parking.

With reasonable care, a Gemmer Steering Gear will last the life of the vehicle.

GEMMER MANUFACTURING CO.
5400 MT. ELLIOTT
DETROIT 11, MICHIGAN

Gemmer Has Been Making Steering Gears for Motor Vehicles for 43 Years

FLUSHERS, Radiator and Block (Portable)—cont.

Liquid Veneer Corp., Urban & Kehr Sts., Buffalo 11, N. Y. "Purgo Ejector."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Guns.)
Sodrin Mfg. Co., 2748 McGee Trafficway, Kansas City, Mo. (Guns.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Ra-Bloc."
Universal Chemists, 107 Northampton St., Boston, Mass. "Hy-Power." (Guns.)

FLUX, WELDING, See Compounds, Welding

FOG LIGHTS, See Lamps, Fog, Road and Spot

FORK LIFT TRUCKS—See Trucks, Lift

FORMS (for Fleet Records)

Fleet Forms Co., 1410 N. High St., Columbus 16, Ohio.
Milbin Printing Co., 132 W. 22nd St., New York 11, N. Y.
Uarco, Inc., 5000 S. California Ave., Chicago 32, Ill.

FOUNTAIN BRUSHES, See Washers, Fountain Brushes & Mops

FRAMES (Pressed Steel)

Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich.
Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.
Parish Pressed Steel Co., Robison & Weiser Sts., Reading, Pa.
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Parish."

FUELS, Engine

American Oil Co., American Bldg., Baltimore, Md.
Associated Division, Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco, Calif.
Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa.
Cities Service Oil Co., 60 Wall Tower, New York 5, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Pennsylvania Refining Co., Butler Savings & Trust Co., Butler, Pa.
Phillipps Petroleum Co., Bartlesville, Okla.
Pure Oil Co., The, 35 E. Wacker Drive, Chicago 1, Ill.
Richfield Oil Corp., Richfield Bldg., 555 S. Flower St., Los Angeles 13, Calif.
Shell Oil Co., Shell Bldg., San Francisco, Calif.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.
Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Standard Oil Co. of California, Standard Oil Bldg., San Francisco, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan St., Chicago 80, Ill.
Sun Oil Co., Marcus Hook, Pa.
Texas Co., The, 135 E. 42nd St., New York 17, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York, N. Y.
Union Oil Co. of California, Wilmington, Calif.

FUEL FILTERS, See Filters, Gasoline; also Filters, Diesel, Fuel

FUEL INJECTORS, DIESEL, See Injector Systems, Gasoline and Diesel Engine

FUEL LINES, FLEXIBLE, See Tubing, Oil and Gasoline Line

FUEL PUMP PARTS, See Parts, Fuel Pump

FUEL PUMP TESTERS, See Testers, Fuel Pump

FUEL PUMPS, See Pumps, Fuel

FUSEES, See Flares, Highway Lighting

FUSES, Electric

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Anthes Force Oiler Co., Ft. Madison, Ia.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bussmann Mfg. Co., 2536 W. University St., St. Louis 7, Mo. "Buss," "Buss Fustats," "Fusetrons."
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
General Electric Co., Const. Materials Dept., Bridgeport, Conn.
K-D Lamp Div. Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Killark Electric Mfg. Co., 123 Mercer St., St. Louis 12, Mo.
Kirkman Engineering Corp., 121 Sixth Ave., New York 13, N. Y. "K-E," "Kirkman Fustats," "Kirkman Thermofuses," "Peak Lag."
Littelfuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex. "Remco."
Royal Electric Co., Pawtucket, R. I.
Ware Bros., 4406 W. Lake St., Chicago, Ill. "W-B."

GAGES, Brake Drum

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Van Norman Co., 3640 Main St., Springfield 7, Mass. "Diam-A-Gage."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

GAGES, Brake Shoe

C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. "TruBrake."
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2033 W. Gage Ave., Los Angeles 44, Calif.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GAGES, Cylinder

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic brake.)
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S." (Hydraulic brake.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. "Centromatic." (Sole distributors. Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.)
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.

GAGES, Cylinder, Compression

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa. (Diesel engine.)
Electric Heat Control Co., 916 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Compressometer."
Gale Hall Engrg, Inc., 107 Northampton St., Boston 18, Mass. "Jet-matic," "Test Master."
G. M. Co. Mfg. Co., 43-10-21st St., Long Island City, N. Y.
Griswold Mfg. Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Motorstat." (Leak tester.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Powercraft Corp., 2502 S. Wabash Ave., Chicago. "Powerflo." (Sole distributors, Letherstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Republic Gage Co., 2220 Fenkell Ave., Detroit 21, Mich.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac." (Vacuum.)
Schauer Mfg. Corp., 2060 Reading Road, Cincinnati 2, Ohio.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Universal Chemists, Inc., 107 Northampton St., Boston, Mass. "Test-Master."
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.

GAGES, Dial

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Dow Mechanical Corp., Thompsonville, Calif.
Federal-Mogul Service, Detroit 13, Mich.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Indicator.)
Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif. (Bore.)
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Standard Gage Co., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

GAGES, Engine Vacuum

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Peaker."
Gale-Hall Engineering, Inc., 236 Huntington Ave., Boston 15, Mass.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Also for permanent installation on car.)
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schauer Mfg. Corp., 2060 Reading Road, Cincinnati 2, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Universal Chemists, Inc., 107 Northampton St., Boston, Mass. "Motochek."
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.

GAGES, Gasoline (Dash Type)

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.

HERE ARE THE REASONS SMART TRUCK OPERATORS BUY THE GENERAL C. D.

The General C. D. is an extra-tread tire built for those truck operators who *plan ahead for profits.*

Its price is higher than ordinary tires, because it renders a lower cost per mile service. And the conscientious *selling* of the C. D. carries with it many obligations far beyond the usual guarantees or service that accompany truck tire sales.

For the dealer and the truck operator must enter into a partnership dedicated to reducing tire costs, eliminating lost travel time, and removing the hazard of accidents resulting from tire failures.

The truck operator must believe in the extra savings from the extra mileage built into the original extra-thick tread. For General pioneered the extra-tread tire... General best knows how to build it.

The truck operator must believe that 75% of the cost of the C. D. is in the *body* of the tire. That he uses tread rubber just like he uses gasoline, by the mile . . . and that, just as he replaces gasoline *without replacing the motor,* so should he *replace the tread* on the C. D. *without replacing the tire.*

The details of *when* and *how many times* the tread is replaced should be important only to the General Tire Dealer. Only two points are of interest to the truck operator . . . fewer tire problems, and lower tire costs per mile. These two things General Tire Dealers can guarantee.

The General Tire & Rubber Company • Akron, Ohio

GAGES, Gasoline (Dash Type)—cont.

King-Seeley Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegage."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill. (Electric.)
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa. (Electric.)

GAGES, Gasoline (Tank Type)

Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

GAGES, Liquid Level (in Storage Tanks)

Bristol Co., Instrument Div., 117 Bristol Rd., Waterbury, Conn.
Liquidometer Corp., 39-20 Skillman Ave., L. I. City, N. Y.
Tokheim Co., 119 C Ave., N.W., Cedar Rapids, Ia.
Scully Signal Co., 84 First St., Cambridge, Mass.
Uehling Instrument Co., 473 Getty Ave., Paterson 3, N. J.

GAGES, Oil Level

Parkwood Mfg. Co., 606 Williamson Bldg., Cleveland 14, Ohio. "Oil-Spy," (Instrument panel type; sole distributor, Frank A. Nealon Associates, 20 N. Wacker Drive, Chicago 6, Ill.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill. (Electric.)

GAGES, Oil Pressure

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Dunn Mfg. Co., 117 15th St., Clarinda, Iowa. "Majestic." (For Ford cars.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Foxboro Co., Neponset Ave., Foxboro, Mass.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich. "K-S Telegage."
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schwarze Electric Co., Church St. at Payne Ave., Adrian, Mich. "Teloil." (For Ford cars.)
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Thickness or Feeler

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cornwell Quality Tools Co., Mogadore, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. "Dor-Tite." (Car door.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Thickness.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Akuret."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 25, Mich.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Michler, R. W., Perris, Calif. "Go No Go."
Miller Co., L. B., 394 State St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, 54, Calif.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock.)
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Ideal."
Union Tool Co., 48 E. River St., Orange, Mass.
Van Keuren Co., 176 Waltham St., Watertown, Mass.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Amseco Inc., 564 W. Randolph St., Chicago 6, N. Y.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. "Tru-Flate."
G.M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Syracuse Gauge Mfg. Corp., 113 S. Midler Ave., Syracuse, N. Y. "Hand-D."

GAGES, Water Temperature

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. "Visualiner."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio. "Cornwell-Krumm."
Duby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass. "Duby," "Ideal."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.
Kwik-Ezee, Inc., 17 W. 60th St., New York 23, N. Y.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo.
Mesco Products, Crete, Nebr.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.
Testing Apparatus, Inc., 1627 W. Fort St., Detroit, Mich. "Dynamic Toe," "One-Man Toe," "Super Easy." (Sole distributors. Micro-Linor Service Corp., 1627 W. Fort St., Detroit 16, Mich.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAS, Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite." (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Div., Liquid Carbonic Corp., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)

GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Div., Liquid Carbonic Corp., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)

GAS, LP, See Fuels, Engine

GAS, Oxygen

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Div., Liquid Carbonic Corp., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)

GASKETS, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Superbestos."
Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Primrose," "Consolco."
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Darcoid Co., 145 Sixth Ave., New York 13, N. Y. "Dominion."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Wirepak."
Field Mfg. Co., R. B. P.O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Greene, Tweed & Co., North Wales, Pa. "Palmetto."
Johns-Manville, 22 E. 40th St., New York 16, N. Y. "J-M."
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Vellumoid Co., 54 Rockdale St., Worcester 6, Mass. "Velbestos"; "Wirebestos." (Wire woven.)
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Asbestoprene," "Victopac," "Victor."
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

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Company_____

Address_____

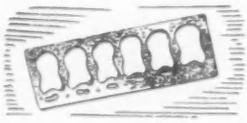
City_____ State_____

GASKET COMPOUNDS

Duroyd Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa. "Plastic Gasket."
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio. "Gasket-Makers."
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Gasket Goo." (In tubes.)
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y. "Form-A-Gasket."
Puritan Co., 573 Lyell Ave., Rochester 6, N. Y.
Radiator Specialty Co., 1722 Dowd Rd., Charlotte, N. C. "Tite Seal."
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."

GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro Sealmaster."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.



Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich. "McKim."
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."

GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Automotive Products Div., Crotty Corp., 39 E. Chicago Ave., Quincy, Mich.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Durocork," "Supercork."
Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro," "Carrocork."
Field Mfg. Co., R. B. P. O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Fitz-Cork."
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich. "McKim."
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div. Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J. "Jointite."
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. (Headlamp, oil pan, valve cover and fuel pump bowl.)
Sutherland Leather & Felt Co., 743 Beaubien St., Detroit 26, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Super-Pak."
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Wisoid."
Continental-Diamond Fibre Co., Newark 10, Del. "Diamond."
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa. "Gaskoid," "Korkite."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DeLoid," "Korkoid," "Springold."
Endura Mfg. Corp., 45 N. Fourth St., Quakertown, Pa.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill. "X-L."
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Karropak."
Field Mfg. Co., R. B., P. O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Merrimac Paper Co., 295 Madison Ave., New York 17, N. Y.
Mitchell & Smith Div., Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich. "M & S."
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Taylor Fibre Co., Norristown, Pa.
Vellumoid Co., 54 Rockdale St., Worcester, Mass. "Vellumoid," "Vellutex."
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victorite," "Ferrono."
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington, Del.
Wisconsin Gasket & Mfg. Co., 8724A N. Granville Rd., Granville, Wis.

GASOLINE, See Fuels, Engine

GASOLINE FILTERS, See Filters, Gasoline

GATES, Truck (Folding)

Atlas Fence Co., 3644 Richmond St., Philadelphia 34, Pa.
Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y.
Gate Co. of America, Detroit, Mich.
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Steel.)

GEAR PULLERS, See Pullers, Gear and Wheel

GEARS, Flywheel Ring

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Industrial Gear Mfg. Co., 4513 W. Van Buren St., Chicago 24, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio. "Excelsior."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Homan & Co., Inc., 920-926 State Ave., Cincinnati 4, Ohio.
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
Warren Gear Mfg. Co., Warren, Pa.

GEARS, Steering

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 23, Ind. (Hydraulic.)
Gemmer Mfg. Co., 6400 Mt. Elliott Ave., Detroit 11, Mich. (Manual and hydraulic.)
Ross Gear & Tool Co., 800 Heath St., LaFayette, Ind.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.

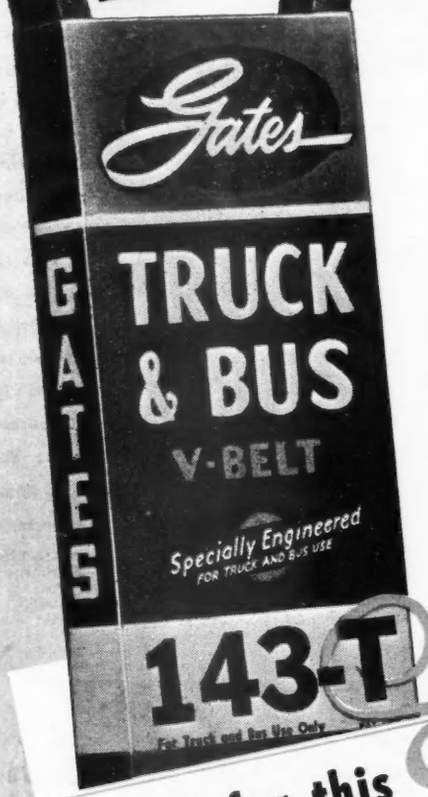
GEARS, Steering (Booster Units)

Air-O-Matic Power Steer Co., 2180 Lee Rd., Cleveland Heights 18, Ohio. "Apsco."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (Hydraulic.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
Garrison Mfg. Co., 1506 S. Santa Fe Ave., Los Angeles 21, Calif. (Hydraulic.)
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Vickers, Inc., 1400 Oakland Blvd., Detroit 32, Mich. (Hydraulic.)

GEARS, Timing (Metallic and Non-Metallic)

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Continental-Diamond Fibre Co., Newark 10, Del. "Celoron."
Crofoot Gear Corp., Charles E., 55 Central St., South Easton, Mass.
D & B Mfg. Co., 2329 Michigan Blvd., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dexter Machine Products Co., 20540 U. S. 12 W., Chelsea, Mich. "Sylvan." (Aluminum-steel, for Chevrolet and Ford cars and trucks, Studebaker cars and GMC trucks.)
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
General Electric Co., Chemical Dept., Pittsfield, Mass. "Fabroil," "Textolite." (Non-metallic.)
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.

"50% TO 80% Longer Wear from this Gates Truck Belt"



As a fleet owner yourself, you know how carefully the big operators keep records on every detail of operational cost—and Freihofer Baking Company is no exception.

With many, many trucks in the extra severe "stop and start" delivery service that puts heavy, **additional** strains on a TRUCK BELT, Freihofer Baking Company says—and ***says it in writing:—"We are getting 50% to 80% longer service from GATES TRUCK BELTS."***

This longer service represents, of course, a substantial saving in **belt costs**—but note that they call attention to a much **bigger saving** that results from the longer and **better** service delivered by GATES TRUCK BELTS. They say:—***"This is also tied in with the elimination of road service calls—and that really means a lot in lower cost of operation."***

Thousands of other users of GATES TRUCK BELTS will tell you the same story. A few names of big users are published on the preceding page. Just ask any one of them how GATES TRUCK BELTS are cutting down the delays encountered by them for belt servicing on the road!

A reduction in **road delays** pays you bigger dividends than almost any other thing you can do. It prevents disappointment to your customers who may be waiting anxiously for the delivery of important shipments. And—most important of all—it increases the **net operating time** of your units, which is, after all, the **one** thing that **pays you a profit!**

Because of the proved gains in operation time the Gates TRUCK Belt is giving other successful operators—in addition to very substantial savings in belt costs—we believe that starting TODAY, you will want to insist on having Gates TRUCK Belts on your TRUCKS and BUSES.

The GATES RUBBER COMPANY

DENVER, U.S.A.

World's Largest Makers of V-Belts

LOOK for this T*

Look for the letter "T" on the belt itself—as well as on the label—of every belt you buy for truck service.

"T" means that the belt has been specially engineered for TRUCKS and BUSES. It has a tough, multiple ply cover of more than double durability—and is also built with high-tenacity RAYON cords of immense tensile strength!

You can be sure of getting the belt designed for the very severe TRUCK service only by seeing to it that you are delivered belts which bear this letter "T".

*REG. U.S. PAT. OFF.

Specially Engineered for Trucks & Buses

T-509

GEARS, Timing (Metallic and Non-Metallic)—cont.

Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade. Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Taylor Fibre Co., Norristown, Pa. (Non-metallic.)
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Timing Gears Corp., 2801 Fulton St., Chicago 12, Ill. "Cy-lent."
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif. "Martin Wells."
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Micarta." (Non-metallic.)

GEARS, Transmission

Automotive Gear Works, Inc., 8th & S. O. Sts., Richmond, Ind. "Double Diamond."
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Warner."
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 10, Ill. "Hy-Power."
New Process Gear Co., 500 Plum St., Syracuse, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Warford Corp., 44 Whitehall St., New York, N. Y. (Ford and Chevrolet trucks.)
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

GEARS and PINIONS, Rear Axle

(For complete units—see Differentials)

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Warner."
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
Warren Gear Mfg. Co., Warren, Pa.

GEARS, Worm Drive

Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio. "C. W. & G. Co."
Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Crofoot Gear Corp., Charles E., 55 Central St., S. Easton, Mass.
Eberhardt-Denver Co., 1408 W. Colfax Ave., Denver 4, Colo.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Meisel Press Mfg. Co., 944 Dorchester Ave., Boston 25, Mass.
Newark Gear Cutting Machine Co., 69 Prospect St., Newark 5, N. J.
Rochester Gear Works, 4483 Orion Rd., Rochester, Mich.
Smith Corp., Winfield H., 100 Easton St., Springfield, N. Y. "W. H. S."
Steel Products Engineering Co., 1205 W. Columbia St., Springfield, Ohio.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."

GENERATORS

American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Volt-O-Matic."
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)
Auto-Lite Battery Corp., Owen-Dyneto Corp., 1920 Park St., Syracuse, N. Y.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Elsco."
General Armature & Mfg. Co., Mill Hall, Pa.
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N." (Bus and truck.)

GLASS, Safety

Auto Glass Mfg. Co., 8701 Brinnell Ave., Detroit 13, Mich. "AGM."
Libbey-Owens-Ford Glass Co., Nicholas Bldg., Toledo 3, Ohio. "HiTest."
Pittsburgh Plate Glass Co., 2200 Grant Bldg., Pittsburgh 19, Pa. "Duplicate," "Duolite," "Multiplate," "Carrara," "Herculite."
Protecto Safety Glass Co., 82-08 Cooper Ave., Brooklyn 27, N. Y.
Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa.
Shatterproof Glass Co., 4815 Cabot Ave., Detroit, Mich. "Shat-R-Proof."

GOVERNORS, Engine

Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
King-Seeley Corp., 315 S. First St., Ann Arbor, Mich. "Handy."
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich. (Combination governor and distributor.)
Monarch Governor Co., 1832 W. Bethune Ave., Detroit 6, Mich.
Pierce Governor Co., 1615 Ohio Ave., Anderson, Ind.
Safety Speed Control Co., 7800 N. E. Fourth Court, Miami, Fla.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor" combination carburetor and governor.)

GRAPHITE, Lubricating

American Grease Stick Co., Muskegon, Mich.
Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Glydag," "Oildag," "Dag," "Aquadag," "Castordag."
Boyle-Midway, Inc., 22 E. 40th St., New York, N. Y. "Kant Rust."
Dixon Crucible Co., Joseph, Jersey City 3, N. J.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill. "Esso."
Superior Flake Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill. "Motorflake," "Superflake."
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "Mexican."
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th Sts., Chicago 19, Ill. "Dutch Brand."

GREASE, Chassis, See Oils and Lubricants

GREASE GUNS, HAND, See Lubricators, Hand

GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure

GREASE AND OIL ABSORBENTS (Floor), See Absorbents, Oil and Grease (Floor)

GREASE RETAINERS, See Retainers, Oil and Grease

GRILLES, Radiator

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
Aluminum Goods Mfg. Co., Manitowoc, Wis.
Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Detroit Grille Mfg. Co., 258 E. Vernor Highway, Detroit 1, Mich.
Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (For White trucks.)
Globe Stamping Div., Hupp Motor Car Corp., 1250 W. 76th St., Cleveland 2, Ohio.
Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
Helms Industrial Development Co., 62-B Keeler Bldg., Grand Rapids, Mich.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind.

GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Blount Co., J. G., Woodland St., Everett 49, Mass.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Forbes & Myers, 172 Union St., Worcester 8, Mass.
Hisey-Wolf Machine Co., Div. Cincinnati Electrical Tool Co., Madison St. & Edwards Rd., Cincinnati 8, Ohio.

Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Lee Co., K. O., Congress Ave., S. E., Aberdeen, S. D. "Knock-Out."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Luther Grinder & Tool Co., Sheboygan, Wis.
Marathon Electric Mfg. Corp., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
Motor Generator Corp., The Hobart Brothers Co., Hobart Square, Troy, N. Y.
Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif. "RE."

GRINDERS, Bench—cont.

Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild."
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 60F, Mich.
Schauer Machine Co., 2060 Reading Rd., Cincinnati 2, Ohio.
Signal Electric Mfg. Co., Menominee, Mich.
Skilsaw, Inc., 5033 Elston Ave., Chicago, Ill. "SkilGrinder."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
Van Dorn Electric Tools, Towson 4, Md.
Vonnegut Moulder Corp., 1879 Madison Ave., Indianapolis 2, Ind. "Marschke."
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
Wickman Mfg. Co., 15533 Woodrow Wilson Ave., Detroit 3, Mich. "Wickman-Neven."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GRINDERS, Brake Drum

Barrett Equipment Co, 2101 Cass Ave., St. Louis 6, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.

GRINDERS, Brake Lining and Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

GRINDERS, Crankshaft

Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)
Norton Co., 1 New Bond St., Worcester 6, Mass.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)
Tobin-Arp Mfg. Co., 2845 Barrett Ave. So., Minneapolis 8, Minn. (Polisher.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Portable.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Intheblok." (Portable.)

GRINDERS, Cylinder

Bryant Chucking Grinder Co., 257 Clinton St., Springfield, Vt.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

GRINDERS, Drill

Black Diamond Saw & Machine Works, Natick, Mass. (Sole distributors, Edward Blake Co., 437 Cherry St., West Newton 65, Mass.)
Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y. "Sellers."
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Gallmeyer & Livingston Co., 346 Straight Ave., Grand Rapids 4, Mich. "Grand Rapids."
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
La Salle Tool Co., 507 W. Washington St., Chicago 8, Ill. "American."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis. "Sterling."
Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.

GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Tool."
Dumore Co., 14th & Racine Sts., Racine, Wis.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock-Out."
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.
Precise Products Co., 1328 Clark St., Racine, Wis.

Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilGrinder."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.

GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1338 Fulton St., Grand Haven, Mich.
Madison-Kipp Corp., 201 Waubesa St., Madison, Wis. "Kip."
Onsrud Machine Works, Inc., 3900 Palmer St., Chicago 47, Ill.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Schramm, Inc., West Chester, Pa.
Skilsaw, Inc., 5333 Elston Ave., Chicago 30, Ill.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

GRINDERS, Valve Seat (Portable Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Vibro-Centric."
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass.
S & D Engineering Co., 1709 Standard Ave., Glendale 1, Calif.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Grinder."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tool Co., Towson 4, Md.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 20, Conn. "Waterbury Hall."
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Feather Touch."

GUARDS, Bumper

Bumper Guard Co., 277 Washington Ave., Memphis, Tenn. "Bump-R-Gard."
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Chadwick, Inc., 7th St. & Keystone Ave., Darby, Pa.
Eaton Mfg. Co., Stamping Div., 755 E. 140th St., Cleveland 10, Ohio.
Erie Mfg. Div., Pressed Steel Car Co., 2635 S. Wabash Ave., Chicago 16, Ill.
Hamlin Metal Products Co., Exchange at Water Sts., Akron, Ohio.
Houdaille-Hershey Corp., 800 E. Garfield St., Decatur, Ill.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Lansing Stamping Co., So. Pens. Ave., Lansing, Mich.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Perry Co., The, Dept. S-1, P. O. Box 725, Waco, Texas.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.

GUARDS, Radiator, Grille and Fender

American Forging & Socket Co., P. O. Box 128, Pontiac, Mich. (Radiator Grille.)
Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Grille.)
Bumper Guard Mfg. Co., 1093 Chelsea Ave., Memphis 1, Tenn. "Bump-R-Gard."
Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y. (Truck radiator.)
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Cello Products Co., 161 Prescott St., East Boston 28, Mass.
Central Motor Co., 906 Austin Ave., Waco, Tex. "Protector."
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille.)
Erie Mfg. Div., Pressed Steel Car Co., 2635 S. Wabash Ave., Chicago 16, Ill.
Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.
Hamlin Metal Products Co., Exchange at Water St., Akron, Ohio.
Helms Industrial Development Co., 62-B Keeler Bldg., Grand Rapids, Mich.
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit."
Lincoln Metal Products Corp., 179 South St., Newark, N. J. (Radiator, for Ford cars.)
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Mullins Mfg. Co., 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass. (Fender.)
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.

GUARDS, Radiator, Grille and Fender —cont.

Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa. (Radiator and trunk.)
Stevens Mfg. Co., 413 E. Pickard St., Mt. Pleasant, Mich.
Turner Equipment Co., 261 Hastings St., Detroit 26, Mich. "Champion." (Grille, for trucks; sole distributors, Trucksteel Co., Union Commerce Bldg., Cleveland 14, Ohio.)
Van Auken, Inc., 520 W. Eight Mile Rd., Detroit 20, Mich.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill. "Stur-dee."

GUARDS, Splash

Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Tingley-Reliance Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."

GUIDES, Valve

Allied Motor Parts Co., Fox Theatre Bldg., Detroit 1, Mich.
Aluminum Industries, Inc., 2438 Beckman St., Cincinnati 25, Ohio.
American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio.
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Standard Automotive Parts Co., Nims St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Graphited.)
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (For Ford cars.)

HAMMERS, Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa. "Ceco-Drop."
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Indenendent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Lobdell Co., P. O. Box 1108, Wilmington 99, Del. "Nazel."
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Hamer-Dril Co., Box 158, Planetarium Station, N. Y., N. Y.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor-Nado."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co, 5316 W. State St., Milwaukee 8, Wis.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.

HARDWARE, Bus

Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia32, Pa. "Keystone."
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (Stanchions.)
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "Steelflex."
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Stanchions and grab rails.)
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Troy Sunshade Co., Troy, Ohio.

HARDWARE, Truck Body

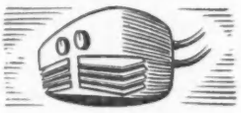
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Hood locks, etc.)
Arcade Mfg. Div., Rockwell Mfg. Co., 1212 E. Shawnee St., Freeport, Ill. (Refrigerator truck body.)
Attwood Brass Works, Inc., 745 Front St., Grand Rapids, Mich. (Also trailer.)
Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill.
Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio.
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Cole Automotive Products Co., 2644 S. Michigan Ave., Chicago 16, Ill. (Window locks.)
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches.)
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Evarts Ave., Cleveland 4, Ohio.
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (Sashes, for autos and buses.)
Ferro Stamping & Mfg. Co., 1367 Franklin St., Detroit, Mich.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body.)
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Jacob Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Jarvis Div. of Dehler-Jarvis Corp., 1501 Paris Ave., Grand Rapids 2, Mich.
Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio. (Steel rolling doors.)
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
Kneuer Tail Board Co., 126 Van Buren St., Newark 5, N. J. (Spaceless tailboard hardware.)
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill.
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Reid Products, Div. of Standard Products Co., 2130 W. 110th St., Cleveland, Ohio. (Door supports and latches.)
Richlite Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Rockford Metal Products Co., 716 Cedar St., Rockford, Ill.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)
Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio. (Also hearse and ambulance.)
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.
Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

HEADLIGHT FOCUSING INSTRUMENTS, See Testers, Headlight

HEATERS, Engine Pre-Heating

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat." (Gasoline burning.)
Campbell Co., H. D., 316 N. 6th St., Rochelle, Ill.
Five Star Mfg. Co., 319 De Mers Ave., East Grand Forks, Minn. "Freeman." (Electric.)
General Electric Co., Schenectary, N. Y.
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 11, Wash. (Electric.)
Nemco Electric Co., 210 Second Ave., Seattle 4, Wash. "Hot-Head." (Electric.)
Perfection Stove Co., 7609 Platt Ave., Cleveland 4, Ohio. "Superfex." (Oil burning.)
Petroleum Heat & Power Co., Stamford, Conn. "Petro." (Gasoline burning, for buses and trucks.)
Synchro-Start Products, Inc., 1046 W. Fullerton Ave., Chicago 14, Ill.

HEATERS, Cab, Cargo & Bus

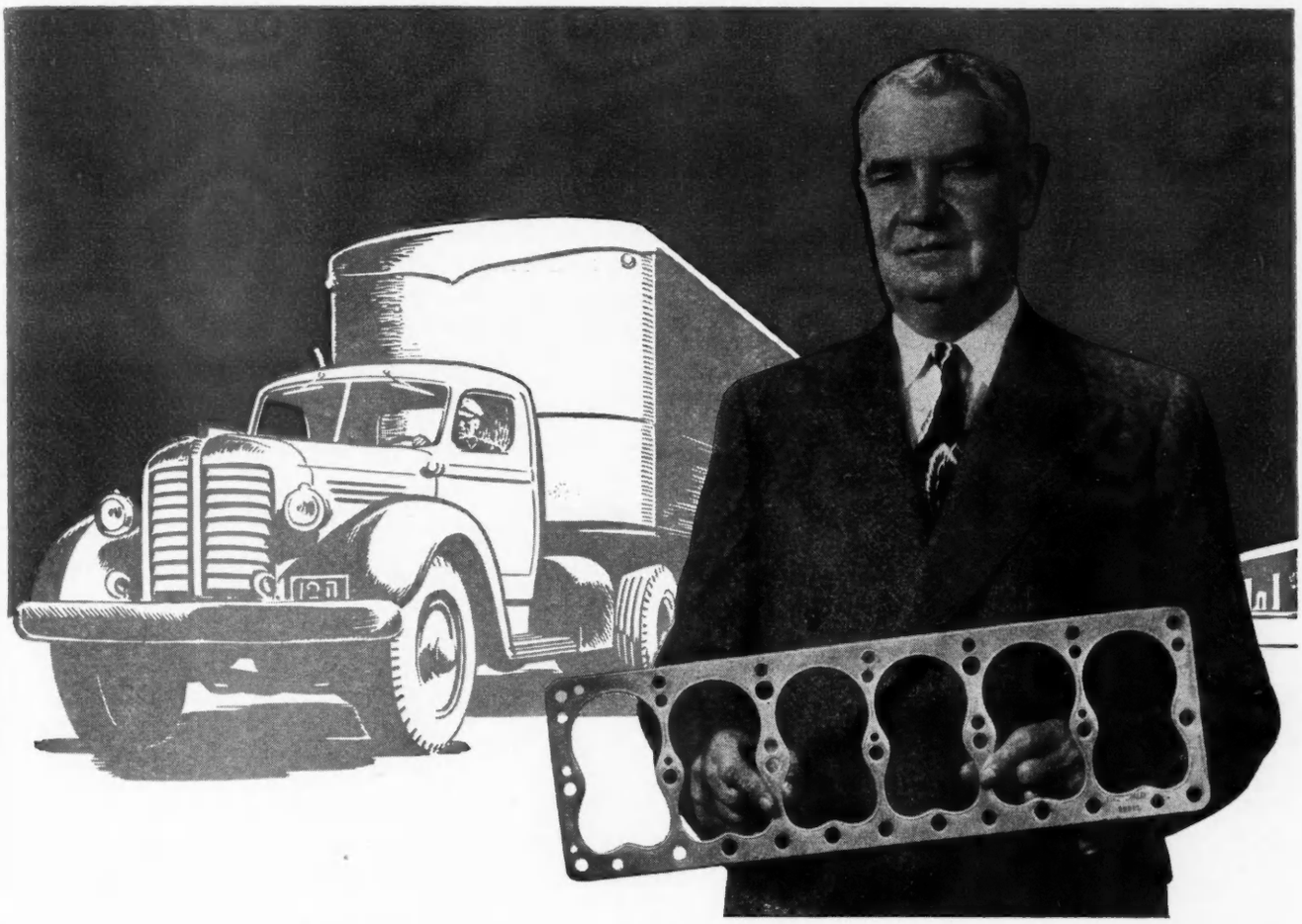


American Gas Machine Co., 505 Front St., Albert Lea, Minn. "Scotsman." (Bottled gas.)
Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat." (Hot air, gasoline burning for buses, trucks and trailers.)
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis. "Gatien." (Exhaust.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Hot water.)
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio. (Hot water.)
Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "Hadees." (Hot water, for autos, trucks and buses.)
Cargo Guard Co., 315 W. 4th St., Davenport, Iowa. (Bottled gas.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Hot water.)
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)
Evans Products Co., Heating & Ventilating Div., Plymouth, Mich. "Evans." (Hot water, for trucks and buses; also heating and ventilating systems for buses and trucks.)
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Gasoline burning, for trailers.)
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)
Highway Safety Appliance, Inc., 1381 Marshall Ave., St. Paul 4, Minn. "Elston." (Cargo.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Gasoline burning, hot water.)
Kysor Heater Co., Hayes St., Cadillac, Mich. (Hot water.)
Noblitt-Sparks Industries, Inc., Columbus, Ind. "Arvin." (Hot water.)
Novi Equipment Co., Novi, Mich. (Hot water.)
Petroleum Heat & Power Co., Stamford, Conn. "Petro." (Gasoline or Diesel oil burning, for buses.)
Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. "Stewart-Warner South Wind." (Gasoline burning, for cars and trucks.)
Surface Combustion Corp., Janitrol Div., 400 Dublin Ave., Columbus, Ohio.
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill. (Hot water.)
Truck & Coach Heater Mfg. Co., 11611 Linwood Ave., Detroit 6, Mich.

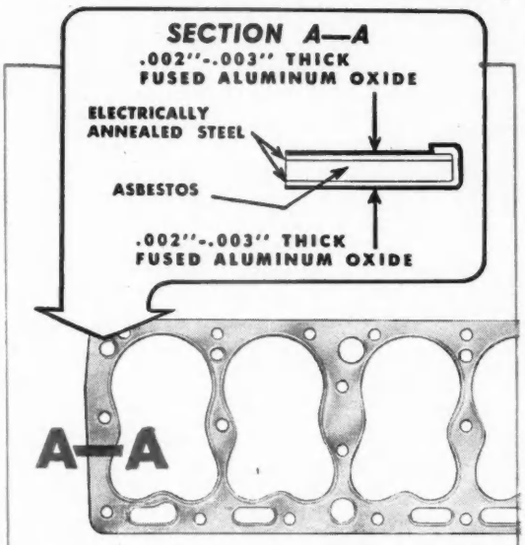
HILL HOLDER, See Locks, Brake

HILL HOLDERS, See Locks, Brake (Hill Holding)

HITCHES, TRAILER, See Couplers, Trailer



"At the ASI Show In Chicago, let's talk about FITZGERALD Metallic Aluminum-Fused-Oxide Steel Asbestos GASKETS*"



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COMPLETE SETS FOR MOTOR REBUILDERS

FITZGERALD gaskets

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If you attend the Automotive Service Industries Show in Chicago next month you'll find our exhibit in Booth B-53-55-57. I'll be there a good part of the time and I'd like to tell you in person how well these new gaskets of ours are performing.

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President

THE FITZGERALD MANUFACTURING CO.
Torrington, Connecticut

HOISTS, Chain or Cable

(See also Cranes, Portable)

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Chrisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "Cyclone," "Blue-Boy."
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa. "Tribloc."
Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa. "Peerless."
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
Lincoln Precision Machining Co., North Grafton, Mass.
Manley Mfg. Div., American Chain & Cable Co., York, Pa.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio. "Chester."
Reading Chain & Block Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Auto-Bloc," "Weston," "Superior," "Little Wizard."
Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa. "Simplex."
Union Mfg. Co., 296 Church St., New Britain, Conn.
Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Philadelphia Div., Roosevelt Blvd., Philadelphia 15, Pa.

HOISTS, Electric

(See also Blocks or Hoists, Chain)

American Engineering Co., 2447 Aramingo Ave., Philadelphia 25, Pa. "Lo-Hed."
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp., Fremont Ave., Tonawanda, N. Y. "Comet," "Meteor."
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich. "Detroit," "Titan."
Electro Lift, Inc., 30 Church St., New York 7, N. Y.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa. "Ford," "Whippet."
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich. "Hi-Lift."
Reading Chain & Block Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Rocket."
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y. "Sprague," "Shepard Niles."
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.
Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Philadelphia Div., 4530 Tacony St., Philadelphia 24, Pa.

HOISTS, MONORAIL, See Cranes, Monorail

HOISTS, Pneumatic

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Kehawke Mfg. Co., 718 S. Ellis St., Muncie, Ind.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.

HOISTS, PORTABLE, See Cranes, Portable

HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio.
Converto Mfg. Co., Cambridge City, Ind.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif.
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Galion Allsteel Body Co., 605 S. Market St., Galion, Ohio. (Hydraulic.)
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass. "Universal."
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)
Hercules Steel Products Co., Box 477, Galion, Ohio.
Jungerson Dump Body Co., 3165 N. 30th St., Milwaukee, Wis.
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
Marion Metal Products Co., Cheney Ave., Marion, Ohio.
National Truck Equipment Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., S. East St., Galion, Ohio. (Hydraulic.)
Rodenhausen's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa. (For coal trucks.)
St. Paul, Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Tweco Products Co., 1018 E. English St., Wichita 1, Kan. "Tweco." "Twecotong."
Unit Mfg. Co., Minneapolis, Minn. (Hydraulic.)

HOISTS, VEHICLE LIFTING, See Lifts, Vehicle

HOLDERS, Electrode

Chicago Tool & Engineering Co., 8383 S. Chicago Ave., Chicago, Ill. "Palmgren."
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich.
Jackson Products, 31739 Mound Rd., Warren, Mich.
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Tweco Products Co., 1018 E. English St., Wichita 1, Kan. "Tweco." "Twecotong."
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.

HOLDERS, LOAD, See Load Holders

HONES, Cylinder

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)
Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic."
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco." (Hydraulic brake.)
Rottler Boring Bar Co., 1727 First Ave., S., Seattle 4, Wash.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Brake.)
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Engine and brake.)
Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Brake cylinder.)
Eis Automotive Corp., Middletown, Conn. (Brake cylindeer.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Piston pin.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio. (Brake cylinder.)
Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)
Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Brake cylinder.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn. (Brake cylinder.)
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco." (Piston pin.)
Precision Hone Co., 840 Anderson St., Detroit 17, Mich. "Honette." (Piston pin, brake cylinder, bushing, etc.; "Brakehone," brake cylinder.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Piston pin.)
Staple Engineering Co., 1315 S. Woodward Ave., Birmingham, Mich.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)
Tobin-Arp Mfg. Co., 2845 Harriet Ave., Minneapolis 8, Minn.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 20, Conn. (Piston pin.)

HOOKS, Towing

Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

HORN RELAYS, See Relays, Horn and Light

HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. "Supertone Twins."
Strombos Co., 4525 12th St., Detroit 8, Mich.

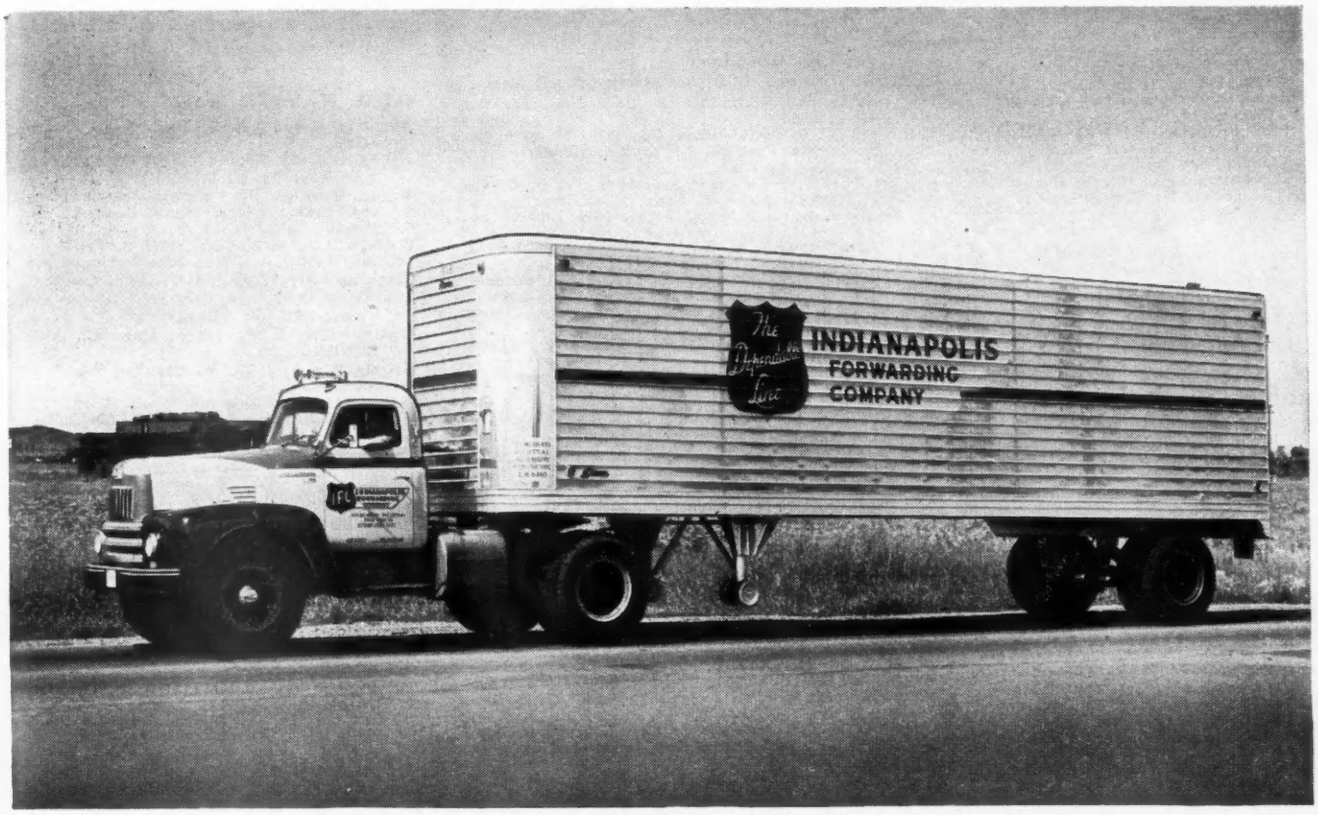
HORNS, Electric

Delco-Remy Div., General Motors Corp., Anderson, Ind. "Klaxon."

I. F. C. ADDS IT UP...

AND

BUYS BROWN!



BROWN LIGHTWEIGHT ALUMINUM TRAILERS MEAN LESS DEAD WEIGHT, MORE PROFIT FREIGHT

Indianapolis Forwarding Company Switches to Brown Aluminum Trailers!

And truckers the country over are buying Browns because lightweight Brown Aluminum Trailers add up to better business, bigger loads, more profits.

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If dead weight in the trailer is robbing you of dollars, it will pay to investigate what Browns can do on your operation. Let the scale tell the tale. You'll see for yourself how the frameless, monocoque construction saves weight and gives you more pounds of payload on each haul.

Brown ALUMINUM TRAILERS

BROWN TRAILERS, INC.
TOLEDO, OHIO
SPOKANE, WASH.

HORNS, Electric—cont.

Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Edwards Co., Norwalk, Conn.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. "Jubilee," "Bugler," "Broadcaster," "Fog-Horn," "Hi-Lo-Tone," "Multi-tone," "Three Star," "Gold Medal," "Bomber," "Challenger," "Rival," "Streamline," "Toot-a-Tune."
Spartan Automotive Div., Sparks-Withington Co., Jackson, Mich. "Marvel."

HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Electric.)
Federal Enterprises, Inc., 8765 S. State St., Chicago 19, Ill.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Sireno Co., 214 William St., N. Y. 7, N. Y.
Sterling Siren Fire Alarm Co., 53 Allen St., Rochester, N. Y. (Electric.)

HORNS, Vacuum Operated

E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. "Trico Claireon."

HORSES and TRESTLES, See Stands, Adjustable

HOSE, Air Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Par Mfg. Co., 3765-93rd St., Jackson Heights, L. I., N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Weatherhead Co., E. 131st St., Cleveland 8, Ohio.

HOSE, Air, Tire Inflating (Rubber and Fabric)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. "Red Air."
Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Chatsworth Mfg. Co., Chatsworth, Ga. "Chamco."
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Enduro," "Vitalic."
Crown Products Co., P. O. Box 1046, Omaha, Neb.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 8, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
G. M. Co. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Hite Mfg. Co., P. O. Box 767, Chattanooga 1, Tenn.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 10, Ohio. "Holdfast."
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Gasoline

(See also TUBING, gasoline & oil lines)

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. "Smoothflex." (Synthetic rubber.)
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio. (Synthetic rubber.)
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J. "National." (Synthetic rubber.)
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. "Mulconroy," "New Process."
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflex."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J.
Thermoid Rubber, Div. of Thermoid Co., Whitehead Rd., Trenton, N. J.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Grease (High Pressure)

Adams Grease Gun Corp., 54 W. 21st St., New York, N. Y.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Diamond Rubber Co., Div. of B. F. Goodrich Co., S. Main St., Akron 18, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Leak-Not."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Reda Mfg. Co., 311 Page Blvd., Springfield 4, Mass.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Heater

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Continental Rubber Works, 1946 Liberty St., Erie, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Nebr.
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Miller Rubber Co., Div. B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

HOSE, Hydraulic Brake

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K."
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rex-Weld."
Eis Automotive Corp., Middletown, Conn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Bundyflex."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Delco."
Motive Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill. "Pilot."
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
Par Mfg. Co., 3765-93rd St., Jackson Heights, L. I., N. Y.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Booster.)
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Radiator

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. "Acme Flexrite."
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Atlas Asbestos Co., North Wales, Pa. "Bodygard."
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull State." (Rubber and fabric.)
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. "Permatite."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Bendable.)
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Holdfast Rubber Co., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Johns-Manville, 22 E. 40th St., New York, N. Y. "J-M."
Kelly-Springfield Tire Co., Cumberland, Md.

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HOSE, Radiator—cont.

Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Schwartz Rubber Corp., R. H., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

HOSE, Vacuum Brake

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Par Mfg. Co., 3765-93rd St., Jackson Heights, L. I., N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Welding

(See also Cable, Welding)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco-Twin."
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood, Cincinnati 12, Ohio. "Losant."
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio. (Rubber and fabric.)
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld." (Rubber.)
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. (Oxy-acetylene.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG."
Par Mfg. Co., 3765-93rd St., Jackson Heights, L. I., N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.

HUBS, Wheel

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Defiance Screw Machine Products, Div. of Serrick Corp., 733 Perry St., Defiance, Ohio.
Dittmer Gear & Mfg. Co., 193 Grand St., Lockport, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For disc wheels.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HYDRAULIC FLUID, See Fluid, Hydraulic Brake and Shock Absorber

HYDROMETERS, Battery and Coolant

Beck, Oscar, 4-6 Courthouse St., Newark 2, N. J.
Bishman Mfg. Co., Osseo, Minn.
Chaslyn Co., 1952 Irving Park Rd., Chicago 13, Ill. "Chaslyn," "S O S."
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Batrometer," "Kant Stick," "Break-Not," "Zero-Tester," "Freez-D-Tector."
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. "Clearview," "Freas."
General Scientific Equipment Co., 27th & Huntingdon Sts., Philadelphia 32, Pa.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. "Imperial K."
Kennedy Service Tools Co., P. O. Box 31, Mogadore, Ohio.
Kimble Glass Div. of Owens-Illinois Glass Co., P. O. Box 1035, Toledo 1, Ohio.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Corp., Towson 4, Md.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo."
Tagliabue Instruments Div., Weston Electrical Instrument Co., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.
Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.

IGNITION TOOLS, See Tools, Ignition

INDICATORS, Carbon Monoxide

Cambridge Instrument Co., Inc., Grand Central Terminal, New York 17, N. Y.
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.

INJECTOR SYSTEMS, Gasoline & Diesel Engine

Aircraft & Diesel Equipment Corp., 4401 Ravenswood Ave., Chicago 40, Ill. "Adeco."
American Bosch Corp., 3664 Main St., Springfield 7, Mass. (Pumps.)
Diesel Engrg. & Mfg. Corp., 200 N. Laflin St., Chicago 7, Ill. "Demco." (Diesel.)
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S.W., Grand Rapids 2, Mich.
Ex-Cell-O Corp. (Fuel Injection Div.), 1200 Oakman Blvd., Detroit 32, Mich. "XLO." (For airplanes.)
Flint Corp., 1310 W. Clybourn St., Milwaukee, Wis. (Air and water injectors.)
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sydney, N. Y. "Bendix-Scintilla."
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Vitameter."

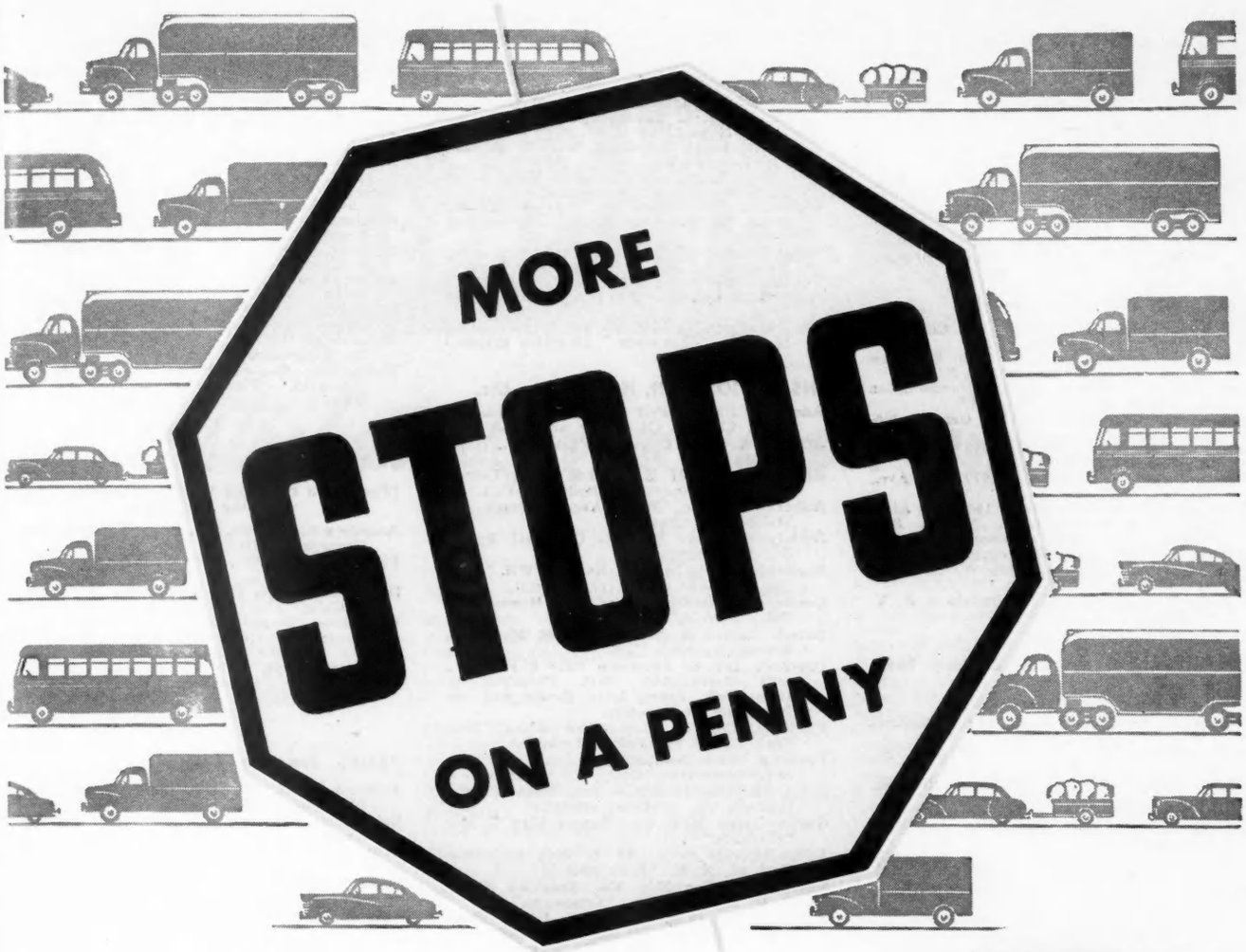
INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Syncrograph."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Price Instrument Engineering Co., Inc., Newport News, Va. (Manometer.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill. "Distrib-U-Scope."
Wells Mfg. Co., 200 W. Division St., Fond du Lac, Wis.

INSTRUMENTS, Electrical Circuit Testing

(See also Analyzers, Trouble)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 4456 E. 189th St., New York 58, N. Y. "Trouble Shooter," "Acroset," "Coilmaster."
General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.
Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn. Kathanode."
Hickok Electric Instrument Co., 10514 Dupont Ave., Cleveland, Ohio. "Autocheck."
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lanagan & Hoke, 431 E. Collum St., Philadelphia 44, Pa.
Littelfuse, Inc., 4757 N. Ravenswood Ave., Chicago 40, Ill. "Ignition Fritz," "Tattelite."
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Cal.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City, Mo.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. "Electrox."
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Drive, Sidney, N. Y. "Bendix-Scintilla."
Shurhit Products, Inc., Waukegan, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty."
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.



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INSTRUMENTS, Electrical Circuit Testing—cont.

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Armature testers.)

INSTRUMENTS, Engine Testing

Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Peaker."
Gale Hall Engineering, Inc., 107 Northampton St., Boston 18, Mass. "Test-X."
Kent-Moore Organization, 5-105 General Motors, Detroit, Mich.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif. "Spark Proractor." (For spark advance.)
Shurnit Products, Inc., Waukegan, Ill.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSTRUMENTS, Storage Battery Testing

(See also Hydrometers)

Associated Equipment Corp., 5147 Natural Bridge, St. Louis 15, Mo.
Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo. "Handy."
Bowers Battery & Spark Plug Co., Reading, Pa.
Edison, Inc., Thomas A., West Orange, N. J.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio.
Electric Storage Battery Co., 19th & Allegheny Ave., Philadelphia 30, Pa. "Exide."
General Electric Co., Const. Materials Dept., Bridgeport, Conn.
General Scientific Equip. Co., 27th & Huntingdon Sts., Philadelphia 32, Pa.
Gould Storage Battery Corp., Depew, N. Y. "Kathanode."
Heyer Industries, Inc., 417 Cortlandt St., Belleville 9, N. J.
Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland, Ohio. "Hickok Chargicator."
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C & C."
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. "Reco."
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.
Willard Storage Battery Co., 246 E. 131st St., Cleveland 1, Ohio.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSULATION, For Electrical Parts (Liquid)

American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu-Lac." (For ignition systems and battery terminals.)
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Dow Corning Co., Midland, Mich. "DC."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
General Electric Co., Chemical Dept., Pittsfield, Mass. "G-E."
Ignition-Ite Products Co., 7146 E. Dinwiddie St., Downey, Calif. (For ignition systems; sole distributors, Eagle Distributing Co., 6411 Hollywood Blvd., Los Angeles 28, Calif.)
Krylon, Inc., 2601 N. Broad St., Philadelphia 32, Pa. (For ignition wiring, battery terminals, etc.)
Radiator Specialty Co., 1722 Dowd St., Charlotte 1, N. C. "Ignition Seal." (For ignition systems.)
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Pib."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif. (Ignition.)
Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite." (For ignition systems.)
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Electricote." (For ignition systems, etc.)
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.
Zip Abrasive Co., 1360 W. 9th St., Cleveland 13, Ohio. "Shortstops." (Ignition system.)

INSULATION, Felt, Hair, Paper, Etc.

American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (Hair and felt.)
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. "Nodrum," "Reflex." (Felt.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Burlington Mills Inc., Burlington, Wis. "Bur-Tex." (Plastic coated trunk lining.)
Continental-Diamond Fibre Co., Newark 10, Del. "Vulcoid," "Diamond."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DG."
Dry-Zero, Div. of American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (For roofs, doors, body panels and refrigerator truck bodies.)
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt and paper.)
Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del.
Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)
Gustin Bacon Mfg. Co., Kansas City 7, Mo. "Ultralite."
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. (Rock wool.)
Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. "Conewago."
Korfund Co., 48-02 32nd Pla., Long Island City 1, N. Y. ("Elasto-Rib" cork and rubber; "Base Isolator," "Panel Seismo Damper," "Balanced Seismo Damper.")
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. "Peerless."
Owens Corning Fiberglass Corp., Dept. 960, Toledo 1, Ohio.
Rubatex Div., Great American Industries, Inc., Bedford, Va. (Cellular rubber.)
Ruberoid Co., 500 Fifth Ave., New York 18, N. Y. (Felt.)
Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (For refrigerator bodies.)
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. "Spauldo." (Paper, for motors.)
Taylor Fibre Co., Norristown, Pa.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "U. S. Flotofoam." (Plastic foam.)
Western Felt Works, 4029 Ogden Ave., Chicago 23, Ill.
Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington, Del. "Fyberoid."
Wilson & Co., 4100 S. Ashland Ave., Chicago, Ill. "Naturzone." (Sole distributors, Automotive Materials Corp., Fisher Bldg., Detroit, Mich.)
Wood Conversion Co., 1981 First National Bank Bldg., St. Paul, Minn. "Balsam-Wool." (Wood fibre.)

IRONS, Soldering (Electric)

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich. "American Beauty."
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.
Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite."
Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
Peerless Novelty Co., First & Fulton Sts., Grand Haven, Mich.
Revere Copper and Brass, Inc., Rome Mfg. Co. Div., Railroad St., Rome, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stanley Tools, 111 Elm St., New Britain, Conn.
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."
Vulcan Electric Co., 88 Holten St., Danvers, Mass. "Vulcan," "Mercury."
Wall Mfg. Supply Co., P., P. O. Box 71, Grove City, Pa. "Harmic."
Wasserleing Mfg. Co., Inc., 7400 3rd Ave., No. St. Petersburg 6, Fla.
Weller Mfg. Co., 822 Packer St., Easton, Pa. "Duratip," "Flextip," "Solderite," "Speed Iron."

JACKS, Spring

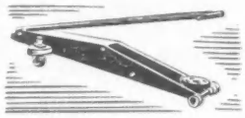
(For use in removing spring shackle bolts and in spring lubricating)

American Hydraulics, Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."

JACKS, Transmission

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio.
General Automotive Tool and Equipment Co., 130 Orchard St., Grand Ledge, Mich. "Hydra-Lift."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

JACKS, Vehicle (Hydraulic)



Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
American Hydraulics, Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Dreadnaut."
Bee-Line Co., Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk," "Lightning Lift."
Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
Buehrle & Son, Inc., Philip H., 168 Manalapan Rd., Spotswood, N. J. "E-Z."
Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio. Drum Safety Jack.
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S., Pittsburgh, Pa. Lo-Hite."
Grand Machining Co., 8301 Lyndon St., Detroit 21, Mich.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio. (Hand and floor.)
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7, Neb. (Bumper.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Auto-Lift."
March Engrg. Co., Oshkosh, Wis.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.

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MORE INDUSTRIES
MORE TERRITORIES

Distributors FOR TULSA WINCHES

ALABAMA
Kimerling Truck & Parts Co., Inc., Birmingham
Robinson Truck & Equipment Co., Mobile

ARKANSAS
Southern Equipment Company, Fort Smith
Southern Equipment Co., N. Little Rock

ARIZONA
Welch Manufacturing Company, Phoenix

CALIFORNIA
Modern Vehicle Company, San Francisco
W. V. Morgan Co., Sacramento
Rankin Brothers, Lynwood
Standard Auto-Body Co., Inc., Los Angeles

COLORADO
The Winter Weiss Company, Denver 2

CONNECTICUT
Truck Equipment Company, Inc., Norwalk
Truck Industries, Inc., Greenwich
Curran-Waring Equipment Co., Inc., Norwalk

DISTRICT OF COLUMBIA
Watson Automotive Equipment Co., Washington

FLORIDA
Miller Truck Equipment Company, Miami
Rivers Body Factory, Jacksonville
West Florida Equipment Company, Marianna

GEORGIA
Truck Parts Company, Inc., Atlanta

ILLINOIS
Auto Truck Equipment Sales, Chicago
Drake-Scruggs Equipment Co., Springfield
Bill Montgomery Body and Trailer, Salem
Nix Brothers, Olney
Scruggs-Drake Equipment Company, Decatur
Voltz Brothers, Inc., Chicago

INDIANA
Ernst Truck Equipment Co., Inc., Ft. Wayne
South Side Equipment Company, Indianapolis
Truck Engineering Co., Inc., Ft. Wayne
Roy C. Whayne Supply Company, Evansville

IOWA
E. Cohn & Sons, Inc., Cedar Rapids
Pecaut Industrial Supply Company, Sioux City
Weston Dump Body Company, Des Moines

IDAHO
The Lang Company, Inc., Boise

KANSAS
Truck Parts and Equipment, Inc., Wichita 11

KENTUCKY
Roy C. Whayne Supply Company, Louisville
Roy C. Whayne Supply Company, Paducah

LOUISIANA
Dealers Truck Equipment Company, Inc., Shreveport
Massart Tire & Supply, Lafayette
Massart Tire & Supply, Lake Charles

MARYLAND
Watson Automotive Equipment Company, Baltimore

MASSACHUSETTS
Springfield Commercial Body Co., Inc., Cambridge

MICHIGAN
Ashton Power Wrecker Equipment Co., Inc., Detroit
I. H. Gingrich and Sons, Grand Rapids
Herthornway Export Corp., Detroit
Swift Body and Equipment Co., Inc., Saginaw

MINNESOTA
Bacheller and Dunn, Inc., Duluth 6
Smith-Dunn Company, Inc., Minneapolis

MISSISSIPPI
A. P. Lindsey, Distributor, Inc., Jackson

MISSOURI
The Ashton-Richards Company, Kansas City
Bailey Auto Body Company, St. Louis
Cunningham Equipment Company, Springfield
Rothschild's Iron and Metal Works, Joplin

MONTANA
Smith Equipment Company, Great Falls

NEBRASKA
Badger Body Manufacturing Company, Omaha
Highway Equipment and Supply Co., Lincoln 1

NEW JERSEY
Auto Truck Equipment Company, Paterson 1
Adam Black & Sons, Inc., Jersey City
Transportation Equipment Co., Inc., Newark

NEW MEXICO
M. & F. Equipment Company, Albuquerque
Watson Truck and Supply, Hobbs

NEW YORK
Binghamton-Heil Equipment Corp., Endwell
Brinberg Body Builders, Long Island City
Maday Body and Equipment Corp., Buffalo
Midway Parts and Service Co., Albany 5
Syracuse Auto Parts, Inc., Syracuse

NORTH CAROLINA
Mitchell Distributing Company, Inc., Raleigh
Mitchell Distributing Company, Inc., Spruce Pine
Twin-States Equipment Company, Charlotte

NORTH DAKOTA
Smith, Incorporated, Fargo

OHIO
The Melvin L. Aston Welding Company, Cincinnati
Buckeye Supply Company, Wooster
Buckeye Supply Company, Zanesville
The Carnegie Body Company, Cleveland
Hercules Body Sales Company, Columbus
Kencar Equipment Co., Dayton
Middlekauff, Inc., Toledo

OKLAHOMA
American Body and Trailer, Inc., Oklahoma City
American Body and Trailer, Inc., Tulsa
Leland Equipment Company, Oklahoma City
Leland Equipment Company, Tulsa

OREGON
Western Equipment Co., Eugene
Western Equipment Co., Portland
Western Equipment Co., Roseberg

PENNSYLVANIA
Doerr Brothers, Inc., Pittsburgh
Eastern Body Company, Philadelphia
Fowler and Fowler, Inc., Oil City
Trailco Mfg. & Sales Co., Hummel's Wharf

SOUTH DAKOTA
Pecaut Industrial Supply Company, Sioux Falls

TENNESSEE
Furlow-Cate, Inc., Chattanooga
Martin Machinery and Supply Company, Knoxville 1
Martin Machinery and Supply Company, Nashville
Rogers Manufacturing Co., Inc., Nashville
Scruggs Equipment Company, Memphis

TEXAS
Adams Truck Company, Inc., San Antonio
American Body and Trailer, Inc., Amarillo
City Welding Shop, Borger
Commercial Truck Company, Lubbock
Alex Feigelson Company, Beaumont
French Tool and Supply Co., Odessa
Hobbs Trailer Sales Company, El Paso
Leland Equipment Company, Longview
Don Maxwell Company, Odessa
Motor Truck Equipment Corp., Dallas
Motor Truck Equipment Corp., Fort Worth
Oilfield Truck Equipment Company, Houston
Truckers Equipment, Inc., Corpus Christi
Wichita Engineering Company, Wichita Falls

UTAH
The Lang Company, Inc., Salt Lake City

VIRGINIA
Smith-Moore Body Company, Inc., Richmond
Transit Trailer Company, Portsmouth

WASHINGTON
Andrews Equipment Service of Wash., Inc., Spokane
Utility Trailer Co., Seattle

WEST VIRGINIA
West Virginia Tractor and Equipment Co., Inc., Charleston
West Virginia Tractor and Equipment Co., Inc., Clarksburg

WISCONSIN
Mullins Body, Inc., Milwaukee
Northern Truck Service, Green Bay

WYOMING
Gehring Equipment Company, Casper

FOREIGN COUNTRIES

CANADA
Ferguson Supply Alberta Limited, Calgary, Alta.
Truck Parts & Equipment Ltd., Vancouver, B. C.
Willock Distributing Company, Vancouver, B. C.
Phil Wood Industries Limted, Windsor, Ontario

MEXICO
Auto Servicio, S. A., Mexico, D. F.

NEW ZEALAND
Motor Specialties Ltd., Auckland, C.I.

VENEZUELA
Joaquin Avellan, Caracas

BRITISH WEST INDIES
Neal & Massy Engineering Company Ltd., Trinidad

AFRICA
W. S. Thomas and Taylor Ltd., Union of S. Africa, c/o J. A. Ewing & McDonald, Inc., New York 16, N. Y.

HAWAII
A. F. Stubenberg Ltd., Honolulu 13

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815-27 E. FIRST STREET

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THE WORLD'S LARGEST MANUFACTURER OF TRUCK POWER WINCHES

JACKS, Vehicle (Hydraulic)—cont.

Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y.
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
Scott-Atwater Mfg. Co., 2901 E. Hennepin Ave., Minneapolis 13, Minn.
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
Star Jack Co., Elmwood Park, Chicago 35, Ill.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich. "Step-Draulic."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex." (Truck.)
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. "Vulcan Ace-Hy," "Vulcan Imperial," "Vulcan Royal."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zamax Mfg. Co., W. Broad St., & Maple Ave., Haverstraw, N. Y. "Lift-King," "Pump-A-Jack."

JACKS, Vehicle (Mechanical)

A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Master-Mite," "Mity-Mite."
Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Automatic Steel Products, Inc., Spun Steel Div., 1201 Camden Ave., S. W., Canton 6, Ohio. "Spunsteel."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Drednaut," "Auscolift."
Barco Machine Products Co., 1975 E. 65th St., Cleveland 30, Ohio.
Carnahan & Henry, Inc., 1100 E. Douglas Ave., Wichita, Kans. "Vee Jack."
Caster Mold & Machine Co., 1171 Wooster Rd., N., Barberton, Ohio. "Queen of Jacks." (Scissor type.)
Chatsworth Mfg. Co., Chatsworth, Ga. "Chamco."
Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S. Pittsburgh, Pa.
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life."
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich. (Bumper.)
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "E-Z Lift."
So-Lo Jack Co., Attleboro, Mass.
Stewart Mfg. Co., 3205 E. Washington St., Indianapolis 1, Ind. (Scissor type.)
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y. "Kelly Albany."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. (Truck.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. "Dependable," "Easy-lift." (Bumper.)

JIGS, Connecting Rod Aligning

Amraco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

JIGS, Ring Gear Riveting

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

JOINTS, UNIVERSAL, See Universal Joints

KEYS, Valve Stem

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
Bailey Products Corp., Union City, Ind.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

KING PINS, See Pins, King

LACQUERS

(See also Enamels)

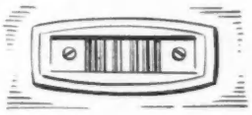
Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Co-Loidal-Ac."
American Paint Co., 902 Larrabee St., Chicago 10, Ill. (Nitro-cellulose.)
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio. "Arcozon."
Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich.
Baer Bros., 438 W. 37th St., New York, N. Y.
Baketite Corp., 30 E. 42nd St., New York 17, N. Y.
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
Berry Bros., Inc., 211 Leib St., Detroit 7, Mich. "Berryloid."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite," "Morblack."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Daconite."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditz-Lac."
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit 13, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington, 98, Del. "Duco." (Pyroxylin.)
Dural Automotive Div., Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
Finch, Ltd., Leo, 728 E. 59th St., Los Angeles, 1, Calif. "Leolac."
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Nitroloid." (Nitro-cellulose and Ethyl cellulose.)
Glidden Co., 1100 Madison Ave., Cleveland, Ohio. "Lacq."
Heath & Mulligan Mfg Co., 1833 S. Normal Ave., Chicago, Ill. "Dependable."
Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Illbronze."
Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Superloid."
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Hi-Solids." (Nitro-cellulose.)
Monsanto Chemical Co., Merrimac Div., Everett Station, Boston 49, Mass.
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "A. N. L."
Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, Ill. "Nik-O-Lac."
Oxidermo Products, Inc., Springport, Mich.
Pierce & Stevens, Inc., 710 Ohio St., Buffalo, N. Y. "P & S."
Pittsburgh Plate Glass Co., Paint Div., 2000 Grant Bldg., Pittsburgh 19, Pa. "Mimax."
Plasti-Kote, Inc., 425 Lakeside Ave., N.W., Cleveland 13, Ohio.
Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Vitroloid."
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich. "R-M." (Nitro-cellulose.)
Sherwin-William Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Opex."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Stand-Lac."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Valentine & Co., 11 E. Lafayette Ave., Detroit 26, Mich. "Enamelac."
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Veco."
Willey Div.-Sun Chemical Corp., C. A., 100 Sixth Ave., New York 13, N. Y. "Wilcolac."
Zapon Div., Atlas Powder Co., Ludlow St., Stamford, Conn.

LAMP BULBS, Miniature Incandescent

Carlton Lamp Corp., 780 S. 13th St., Newark 3, N. J.
General Electric Co., Lamp Dept., Nela Park, Cleveland, Ohio. "G. E."
Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.
National Carbon Div., Union Carbide & Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Eveready."
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Sylvania Electric Products, Inc., Lighting Div., 60 Boston St., Salem, Mass.
Tung-Sol Lamp Works, Inc., 95 Eighth Ave., Newark 4, N. J.
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMP LENSES, See Lenses, Lamp

LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop



Akron Specialty Mfg. Co., 119 Ira Ave., Akron 1, Ohio. (Marker.)
American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Hy-Power." (Tail, parking and clearance; also "King Bee Regular.")
Anthes Force Oiler Co., Ft. Madison, Iowa. (Tail, parking and clearance.)
Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Back-up.)
Arrow Safety Device Co., Mt. Holly, N. J. (Tail, dome, parking and clearance.)
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Clearance and marker.)
Bowman Automotive Plastics Co., Box 336, Olmstead Falls, Ohio. (Tail.)
Brown Equipment & Mfg. Co., Mutual Life Bldg., 1740 Broadway, New York 19, N. Y. "Marko-Lite."
Cole Automotive Products Co., 2644 S. Michigan Ave., Chicago 16, Ill. "Merit." (Clearance, for trucks, trailers and buses.)
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Catseye." (Dome, marker, clearance, back-up, etc.)
Cox Mfg. Co., 111 S. Washington St., Angola, Ind. "Hartline." (Clearance.)
Delbar Products, Inc., Seventh & Spruce Sts., Perkasie, Pa.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Dome, back-up, tail, parking, running board and clearance.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Swa-Bak."
Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Cowl, fender, tail and clearance.)
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio.
General Electric Co., Nela Park, Cleveland 12, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Clearance, back-up, tail and marker.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.; (Tail; back-up; dome; clearance; combination stop, tail and license bracket.)

LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop —continued

Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Hall Lamp Co., C. M., 1035 Hancock Ave., E., Detroit, Mich. "Solar."
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Knight Co., Geo. C., 19720 W. Eight Mile Road, Detroit 35, Mich. (Courtesy.)
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (Clearance, for trucks.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "R-J." (Parking.)
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. (Back-up.)
McKee Glass Co., Bullitt Ave., Jeanette, Pa. (Dome.)
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill. (Clearance.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Tail.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass. (Tail and clearance.)
Rosen & Co., A. W., 1801 First Ave., New York 28, N. Y. "Rosco." (Cowl, fender parking and clearance.)
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, fender and back-up.)
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "Torpedo." (Parking.)
Sparton Automotive Div. of Sparks-Withington, Jackson, Mich. (Armored, clearance, flush-type, back-up, marker, tail, and combination stop and tail.)
Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. (Back-up.)
Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Dome.)
Teippe Mfg. Co., 2608 W. 16 St., Chicago 8, Ill.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Back-up.)
U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill. "Eagle Brand." (Clearance and tail.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome, parking and tail.)

LAMPS, Drying, Baking and Heating

Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. "Fostoria Evenray." (Infra-red.)
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill. (Infra-red.)
North American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo. "Nalco-Drithern." (Infra-red.)
Trippe Mfg. Co., 266 W. 16th St., Chicago 8, Ill. (Infra-red.)
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMPS, Fog, Head and Spot

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Glasseal," "King-Bee Hi-Power."
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass. (Spot.)
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Appleton," "Lorraine." (Spot.)
Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. "Ivalite." (Spot.)
Arrow Safety Device Co., Mt. Holly, N. J. (Fog.)
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill. (Fog.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Fog and road.)
Carpenter Mfg. Co., 195 Master Light Bldg., Somerville, Boston 45, Mass. "Master-Lights," Roof-mounted. colored and flashing warning lights. "Roofmaster." Roof-mounted spot.
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. (Spot.)
Columbus Metal Products 1341 Norton Ave., Columbus 8, Ohio. "Catseye."
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Fog and spot.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Nobby."
Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Fog.)
Electric Auto-Lite Co., Mdse. Dept., Toledo 1, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio. (Fog and spot.)
General Electric Co., Nela Park, Cleveland 12, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky (Fog.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Lamp Dept. of General Electric Co., Nela Park, Cleveland 12, Ohio. (Fog.)
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. "Royal Lumidor," "Supreme Lumidor." (Fog.)
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal." (Road.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Fog and auxiliary driving.)
Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. "Mobilite." (Spot.)
Trippe Mfg. Co., 260 W. 16th St., Chicago 8, Ill. "Trippe Safetylight."
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Fog.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. ("Safetylight" Spot; "Unity" fog.)
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

LAMPS, HEAD, See Lamps, Fog, Head and Spot

LAMPS, Sealed Beam

Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electroline Mfg. Co., 1975 E. 61 St., Cleveland 3, Ohio.
General Electric Co., Lamp Dept., Nela Park, Cleveland 12, Ohio.
Guide Lamp Div. General Motors Corp., 25 St. & Arrow Ave., Anderson, Ind.
Perfection Automotive Products Corp., 925-33 W. Elizabeth St., Detroit 1. Mich.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Trippe Mfg. Co., 260 W. 16 St., Chicago 8, Ill.

LAMPS, Tell-Tale (Rear Signal or Tail Lamp)

Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Douglas Mfg. Div. Kingston Products Co., Railroad St., Bronson, Mich.
Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y.

LAMPS, Trouble, Battery Operated

Alden Products Co., 117 N. Main St., Brockton 64, Mass. "Alden Save-Ur-Life." (Plugs into cigar lighter socket.)
BMC Mfg. Corp., 5 Griswold St., Binghampton, N. Y. (Plugs into light socket.)
Bowman Automotive Plastics Co., Box 336, Olmstead Falls, Ohio.
Cole-Hersee Co., 20 Old Colonoy Ave., Boston 20, Mass.
Douglas Mfg. Div. Kingston Products Co., Railroad St., Bronson, Mich.
Electroline Mfg. Co., 1875 E. 61st St., Cleveland 3, Ohio.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Also magnetic.)
Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. "Lite-Hook." (Magnetic.)
Perfection Automotive Products Corp., 725 W. Elizabeth St., Detroit 1, Mich.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LAMPS, Trouble (Electric)

Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Reelite."
Arrow Safety Device Co., Mt. Holly, N. J.
Benjamin Reel Products, Inc., 10700 Broadway, Cleveland 25, Ohio.
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa. "B-Line."
Crescent Co., Pawtucket, R. I.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza, S., Long Island City, N. Y.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. "G-E."
Glade Mfg. Co., 1632 W. 75th Place, Chicago 20, Ill. "Climax," "Super."
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif. "Magnalume."
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
McGill Mfg. Co., Electrical Div., Valparaiso, Ind.
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Ohio Parts Co., Theresa St. & Chouteau Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio. "Packard Port-O-Lite."
Revere Electric Mfg. Co., 6009 Broadway, Chicago 40, Ill.
Royal Electric Co., Pawtucket, R. I.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Standard Portable Cord Div., Lincoln Park Industries, 1300 E. 2nd St., Jamestown, N. Y. "Magic-Lite."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LANDING GEARS, TRAILER, See Gears, Landing Trailer

LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Blount Co., J. G., Woodland St., Everett 49, Mass.
DaAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Elgin Tool Works, 67 N. State St., Elgin, Ill.
Hardinge Bros., Inc., 1418 College Ave., Elmira, N. Y. (Precision.)
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)
LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati 8, Ohio.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rivett Lathe & Grinder Inc., 20 Riverview Rd., Brighton, Boston, Mass.
Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y. "Star."
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
South Bend Lathe Works, 342 E. Madison St., South Bend 22, Ind.
Springfield Machine Tool Co., Springfield, Ohio.
Wood Co., Frank N., 344 W. Main St., Waukesha., Wis. "Trucut." (Piston regrooving & cleaning lathe.)

LATHES, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Dixie Machine Tool Co., Cincinnati, Ohio.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.

LATHES, Brake Drum—cont.

Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Van Norman Co., 3640 Main St., Springfield 7, Mass.
VanTool, Inc., 139 N. 22nd St., Philadelphia 3, Pa.
Waddell Equipment Co., 101 South Ave., Garwood, N. J.

LATHES, COMMUTATOR, See Undercutters, Mica

LENSES, Lamp (Glass)

Dearborn Glass Co., 2414 W. 21st St., Chicago, Ill.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Electric Auto-Lite Co., Mdse. Div., Toledo 1, Ohio. "Auto-Lite."
Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill. "Lynx-Eye." (Tail and parking.)
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kopp Glass, Inc., Palmer & Carrie Sts., Swissvale, Pa. (Colored.)
Lancaster Lens Co., 220 W. Main St., Lancaster, Ohio. (Tail, stop, parking, clearance, dome, etc.)
McKee Glass Co., Bullitt Ave., Jeanette, Pa. "McKeelite," "Spreadlight," "Twolite."
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y. "Parco."
Sinclair Glass Co., Main & High Sts., Ceredo, W. Va. (Tail and clearance.)
Yankee Metal Products Corp, 25 Grand St., Norwalk, Conn.

LENSES, Lamp (Plastic)

Bowman Automotive Plastics Co., Box 366, Olmstead Falls, Ohio.
Chicago Molded Products Corp., 1049 N. Kolmar Ave., Chicago 51, Ill.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.

LIFT TRUCKS, See Trucks, Lift

LIFTS, Vehicle (Electric)

Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, Vehicle (Hydraulic)

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy." (Also portable.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)
Hayward Hallett Equipment Co., Div. of Hayward Lumber & Investment Co., 410 San Fernando Rd., Los Angeles, Calif.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)
United States Air Compressor Co., 3300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Twin-Post." (Pneumatic-hydraulic.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Rotary.)

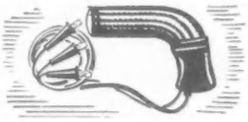
LIFTS, Vehicle (Pneumatic)

Automotive Steel Products, Inc., 1201 Camden Ave., S. W., Canton 6, Ohio. (One end.)
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Cal. (Front end.)

LIGHTS, See Lamps

LIGHTS, Timing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I." (Neon light type.)



Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon light type.)
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Neon light type.)
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon light type.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon light type.)
Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon light type.)
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. (Neon light type.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon light type.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon light type.)
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon light type.)
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Tungsten Spark Plug Mfg. Co., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill. (Neon light type.)
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill. (Neon light type.)

LINING, Brake

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Atlas Asbestos Co., North Wales, Pa. "Atlas," "Giant Atlas," "Old Ironsides," "Quaker," "Bodygard," "Lifegard," "Master."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Colt's Patent Fire Arms Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
Fibre & Metals Products, Inc., 11406 S. Downey Ave. (P. O. Box 270), Downey, Calif. "F & M."
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill. "Asbesgraphite," "Besto," "Gatke," "Servall," "Duo-Coe," "Dura Blok," "Sixty," "Modrate," "Blue Ribbon," "Standard," "Makablok."
General Metals Powder Co., 130 Elinor Ave., Akron 5, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. "Grizzly," "X-T."
Hope Webbing Co., Providence 1, R. I.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Inlite."
Johns-Manville, 22 E. 40th St., New York 16, N. Y. "J-M."
Lasco Brake Products Corp., 2615 Magnolia St., Oakland, Calif.
Marshall-Eclipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y. "Bendix Eclipse."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill. "Champion," "Miley," "Miley Black Gold," "Carbonite," "Miley Ebonite," "Premier," "Zeebee," "Bloc-Tex," "Shoe-Stok," "Unarco," "Wovenstone."
Molded Materials Div., Carlisle Corp., Gillis Ave., Ridgway, Pa. "Mold-Blok."
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Reddaway Brake Lining, 28 Euclid Ave., Newark 5, N. J. "WM."
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J. "Rex-Hide," "Rex-85," "Rex-Hy," "Rex-SS," "Rexstar."
Rossendale Ruboil Co., 30 Euclid Ave., Newark, N. J. "Reddaway."
Russell Mfg. Co., Middletown, Conn. "Rusco."
Scandinavia Belting Co., 248 Central Ave., Newark 1, N. J. "Scandinavia," "Halo."
Southern Friction Materials Co., Box 1475, Charlotte, N. C.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
Triplewear, Inc., 340 Thomas St., Newark 5, N. J.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner CoMaX."
Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio. "Velvetouch."
World Bestos Corp., S. 25th St., New Castle, Ind.

LINING, Brake (Bimetallic)

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."

LINKS, Shock Absorber

Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill. "Amko."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (For Ford cars.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For Ford cars.)
O & S Bearing Co., 303 S. Livernois Ave., Detroit 17, Mich.
Van Bergen & Greener Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

LINKS, Tire Chain Repair

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa.
Cleveland Chain & Mfg. Co., Penn. R. R. & Henry St., Cleveland 5, Ohio. "Wearwell."
Flower City Specialty Co., 158 Hollenbeck St., Rochester, N. Y. "Monkey Links," "Pretzel Links."
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nixdorff-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Wing-Loc."
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y. "Sam-Sons."
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made."
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

LIST, Parts

M & H Parts Inc., 14066 Euclid Ave., East Cleveland, 12, Ohio. (For Eaton 2-speed axles.)

LOAD BINDERS (For Holding Cargo in Vehicle Body)

American Forge & Mfg. Co., Pittsburgh, Pa.
Canton Cast Products Co., 2400 13 St., N.E., Canton, Ohio.
Canton Malleable Iron., Canton, Ohio.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. "Lode-Lok."
Stacy Mfg. Co., Tiffin, Ohio.

LOADERS, Truck (Elevating Tailgate)

Anthony Co., Streator, Ill.
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio.

Let's Look at the Record!

When you look at the fuel pump record for the past 23 years, there's just one name that dominates in performance, reliability, and quality—AC.

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AC SPARK PLUGS

AC OIL FILTERS

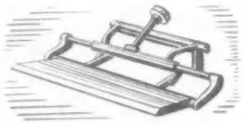
preferred on millions of vehicles

AC FUEL PUMPS

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

LOADERS, Truck (Elevating Tailgate) —cont.

Daybrook Hydraulic Corp., Bowling Green, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Modern."
Gichner Iron Works, Inc., Fred S., 1214-24th St., N.W., Washington 7, D. C.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hercules Steel Products Corp., Box 477, Galion, Ohio.
Marion Metal Products Co., Marion, Ohio.



National Lift Co., 225 Madison St., Waukesha, Wis. "Lift-O-Matic."
Perfection Steel Body Co., Galion, Ohio.
St. Paul Hydraulic Hoist, 2207 University Ave., S.E., Minneapolis 14, Minn.
Thompson Trailer Corp., P. O. Box 3067, Alexandria, Va.
Ven Corp., 2828 Newell St., Los Angeles 39, Cal., "Venco."

LOCKS, Brake (Hill Holding)

Automatic Brake Control Co., 1 Flax St., Delaware, Ohio. "ABC." (Automatic hydraulic.)
Electrol Incorporated, 85 Grand St., Kingston, N. Y. "RolControl."
General Armature & Mfg. Co., Lock Haven, Pa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Mico."
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. "Hydraulocks."
Reim Co., Inc., Chas., 547 West 20th St., New York, N. Y.
Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio. "Double Check." "Sharp."
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "NoRol."
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Eagle Lock Co., S. Main St., Terryville, Conn.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Hurd Lock & Mfg. Co., Almont, Mich.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia, Pa. "Mitchellock."

LP GAS, See Fuels, Engine

LUBRICANTS, Engine & Chassis, See Oils and Lubricants

LUBRICANTS, Gear, See Oils and Lubricants

LUBRICANTS, Tire

American Grease Stick Co., Muskegon, Mich. "Ru Glyde."
American Sand-Barium Co., Inc., 9 Rockefeller Plaza, N. Y. 20, N. Y. "Tinallium."
Bishman Mfg. Co., Osseo, Minn.
Cohutta Talc Co., Dalton, Ga.
Doggett, Inc., Stanley, 75 Varick St., New York 13, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."

LUBRICATORS, Hand

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Bishman Mfg. Co., Osseo, Minn.
Bowen Products Corp., Ecorse 25, Mich.; Auburn, N. Y.
Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J. "Graph-Air." (Graphited.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill. "Imco-Lube."
K. P. Mfg. Co., 1226 Linden Ave., Minneapolis 1, Minn.
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Handi-Lubers," "Kleenseal."
Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
Nauman, R. F., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

LUBRICATORS, Portable High Pressure (Compressed Air)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Brown Grease Gun Co., Charlotte, N. C.
Bud Mfg. Co., R. D. 31, Pulaski, N. Y. "Scharoun."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Autoluber," "Lubriguns," "Powerlubers."
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Scharoun Co., R. J., Pulaski, N. Y.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

LUBRICATORS, Portable High Pressure (Electric)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill. "Electro-Draulic."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

LUBRICATORS, Portable High Pressure (Hand Operated)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lincoln Porto-Pak."
National Store Specialty Co., Bareville, Pa.
Nauman, R. T., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Phillips Pump & Tank Div., Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

LUBRICATORS, Stationary, High Pressure (Compressed Air)

Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns," "Masterlubes," "Lubreel."
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass. "Ampco."
Dutton-Lainson Co., Hastings, Neb. "Golden Rod."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Inverse Oiler."
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

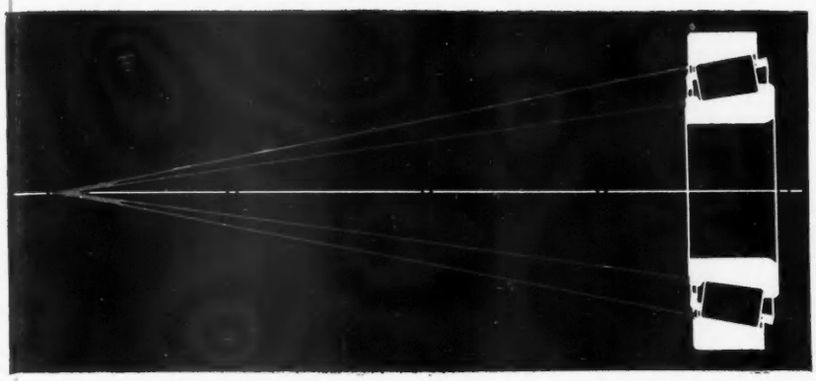
MACHINES, Bonding (For Cracked Cylinders)

Kerkling & Co., 8319 Allport Ave., Whittier, Calif. "K&W."
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Moguloid Co. of America, 3520 W. Carroll Ave., Chicago, Ill. (Arc.)

MACHINES, Boring (Main Bearing and Connecting Rod and Camshaft)

(See also Reamers, Main Bearing and Connecting Rod)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way." (Main bearing.)
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.
Hub City Iron Co., 219 First Ave., S. W., Aberdeen, S. D.
Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis. "Sterling." (Main bearing.)
Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex. (Connecting rod bearing.)
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.
Van Norman Co., 3640 Main St., Springfield 7, Mass. (Connecting rod.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Connecting rod.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."



True rolling motion

The rollers in Timken® bearings really roll. That's because rollers and races are precisely tapered so that all lines coincident with their tapered surfaces always meet at a common point on the axis of the bearing.

This true rolling motion results in friction-free operation and minimum wear—helps hold precision longer. It's another reason why Timken tapered roller bearings are first choice with truck and trailer manufacturers everywhere.

Another reason why TIMKEN® bearings are first choice with truck manufacturers

SINCE THEY'RE BEST WHEN THE TRUCK IS NEW ....THEY'RE BEST FOR REPLACEMENT, TOO!

YOU'RE SURE of long, trouble-free service when you use Timken bearings for replacement. Only tapered roller bearings stamped with the trade-mark "Timken" give you: 1) advanced design, 2) precision manufacture, 3) rigid quality control, 4) special analysis steels. FREE BOOKLET, "*Timken Tapered Roller Bearings, Their Care and Maintenance*", contains 20 pages of practical tips for fleet owners and mechanics. For your copy, write Dept. JC-11 The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".

TIMKEN

TRADE MARK REG. U. S. PAT. OFF.

TAPERED ROLLER BEARINGS

NOT JUST A BALL NOT JUST A ROLLER THE TIMKEN TAPERED ROLLER BEARING TAKES RADIAL AND THRUST LOADS OR ANY COMBINATION

MACHINES, Boring (Piston Pin Bushing)

Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.

MACHINES, Brake Relining

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo.
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) "Chicago," "Buffalo," "Niagara." (Reliners, rivet setters, "Reliance," combination deliner, reliner and grinder, etc.)
Davis Brake Co., 2219 N. Second St., Philadelphia 33, Pa.
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
National Rivet & Mfg. Co., Waupun, Wis.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Shepard-Thomason Co., 2320 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.
Wadell Equipment Co., 101 South Ave., Garwood, N. J. (Also combination riveter and brake shoe grinder.)
Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Neb. "Morris."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W." (For Ford cars.)

MACHINES, Clutch Rebuilding

(See also Tools, Clutch Rebuilding)

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

MACHINES, Piston Turning and Grinding

Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. (Grinding.)
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Landis Tool Co., Sixth & Church Sts., Waynesboro, Pa. (Hydraulic grinding.)
Lempco Products, Inc., Dunham Rd., Bedford, Ohio.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wood Co., Frank N., Wauwatosa, Wis.

MAGNESIUM

The Dow Chemical Co., Midland, Mich.

MAGNETOS

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
Fairbanks Morse & Co., Magneto Div., Beloit, Wis.
Griswold Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Vertex."
Jack & Heintz Precision Industries, Inc., 17600 Broadway, Cleveland 1, Ohio. "Eiseman."
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. "Super Chief."
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix-Scintilla."
Watts Electric & Mfg. Co., 2222 E. Maple Rd., Birmingham, Mich.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

MANIFOLDS, Intake and Exhaust

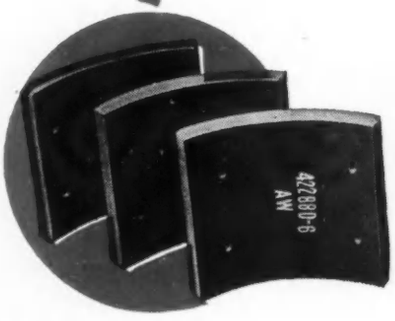
Almquist Engineering & Mfg. Co., Milford, Pa. (Dual intake for Ford.)
Continental Motors Corp., Muskegon 82, Mich.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit, Mich. "Steelbestos."
Electric & Carburetor Engrg. Co., 231 E. Eighth St., Los Angeles 21, Calif. "Tattersfield."
Grancor Automotive Specialists, 5652 W. Broadway, Chicago 40, Ill.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Thickstun Mfg. Co., 118 Lomita St., El Segundo, Calif.
Tube Manifold Corp., 1100 Military Rd., Buffalo 17, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich. (For Ford and Chevrolet.)

MASKING, Liquid

Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif. "Spraymask."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Continental Corp., 1800 Winnemac Ave., Chicago, Ill. "Protect-O-Lac."

"Know Their Stuff"

We use Thermoid Heavy Duty Brake Blocks, because the Thermoid people really know their stuff. They're recognized experts in the field of brake maintenance—and whether it's Brake Parts, Brake Fluid or *Heavy Duty Brake Blocks*, we've always found Thermoid brake products completely dependable in every way. We're bugs on *economy*, too. That's another reason why we use Thermoid Heavy Duty Brake Blocks. They're engineered for long, money-saving service.



Thermoid

Brake Linings • Fan Belts • Radiator Hose • Hydraulic Brake Parts and Fluid • Car Mats • Clutch Facings • Thermoid Precision Process Equipment

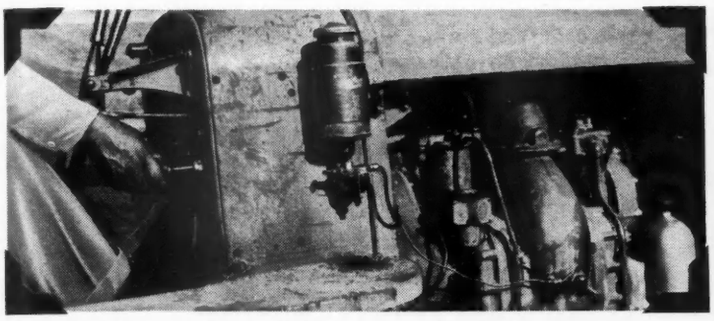
Thermoid Company • Trenton, N.J.

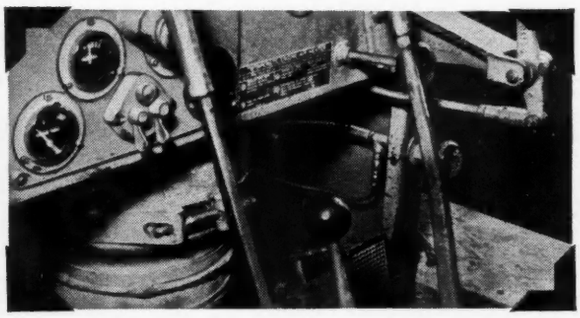
STANDARD ENGINEER'S REPORT

DATA

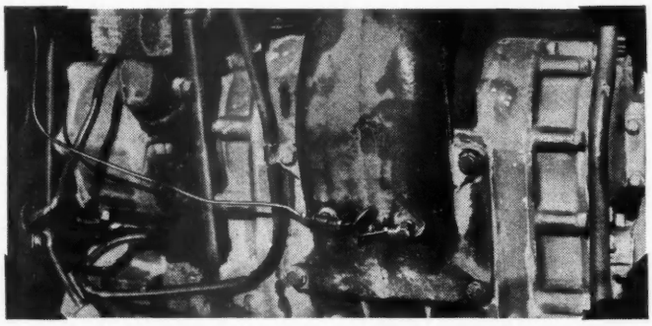
PRODUCT	Chevron Starting Fluid
UNITS	A. C. diesel engines HD-7 tractors
CONDITIONS	25° below zero weather—parked in open shed
EQUIPMENT	Permanent primer with atomizers on blower
FIRM	John W. Graves Heppner, Oregon

Engine starts on first turn at 25° below zero!



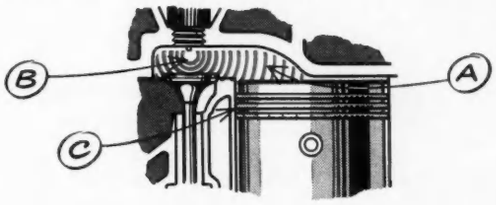


CHEVRON STARTING FLUID started this engine instantly every time during a severe Oregon winter, even when the tractor had been idle for several days in temperatures down to 25° below zero! John W. Graves, owner, says, "Power in the starter battery would last only for two or three revolutions of the engine, but Chevron Starting Fluid required only one turn to kick it off." With one or two strokes of the dash-mounted pump, fluid was forced from the storage tank (left center) into the "blower", before the starter button was pushed.



ATOMIZER NOZZLES, as shown on this diesel "blower", are also used to inject Chevron Starting Fluid into intake manifolds of gasoline engines. Complete primer equipment may be purchased from your fluid supplier. Chevron Starting Fluid comes in 3-pint cans, and capsules of two sizes—7CC's and 17CC's, packed 12 and 24 per can. It is approved by leading engine manufacturers.

How CHEVRON Starting Fluid Starts Gasoline and Diesel Engines Instantly



A. Atomizes in lowest temperatures and provides powerful, easily fired vapor in combustion chamber.

B. Pressure, or the weakest spark, fires mixture—turns engine and heats air for regular fuel mixture.

C. Contains lubricant and additives—prevent cylinder wear and ice formation in primer equipment.

HOT NEWS on COLD ENGINES

FREE BOOKLET gives you more facts on Chevron Starting Fluid—shows where it should be applied in different type engines. Write or ask for it today.

CHEVRON STARTING FLUID

TRADEMARK REG. U.S. PAT. OFF

FOR MORE INFORMATION about this or other petroleum products of any kind, or the name of your nearest distributor handling them, write or call any of the companies listed below.

STANDARD OIL COMPANY OF CALIFORNIA • San Francisco
THE CALIFORNIA OIL COMPANY • Barber, N.J., Chicago, New Orleans
STANDARD OIL COMPANY OF TEXAS • El Paso, Texas
THE CALIFORNIA COMPANY • Denver, Colorado

MASKING, Liquid—cont.

Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo. "Red-Skin."
Detrex Corp., Box 501, Detroit 32, Mich. "LPM."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales Dept., Wilmington 98, Del.
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif. "Leo-Mask."
Hanson-Van Winkle-Munning Co., Matawan, N. J. "Kote-Masq," "Kote-Rax."
Ken-nite Co., 2936 Hancock Ave., W., Detroit 8, Mich.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
M-M-A, Inc., P. O. Box 411, Lancaster, Pa. "Mack."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Protexit."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. "Plask."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Duramask."

MASKING, Tape

Polyken Dept. of Bauer & Black, Div. of Kendall Co., 2500 S. Dearborn St., Chicago 16, Ill.
Chicago Show Printing Co., Mystik Adhesive Div., 2635 N. Kildare Ave., Chicago 39, Ill. "Mystik."
Industrial Tape Corp., New Brunswick, N. J. "Permacel."
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn. "Scotch."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. "Plask."
Van Cleef Bros., Inc., 7800 Woodlawn Ave., Chicago 19, Ill. "Dutch Brand Mask-O," "Dutch Brand Techni."

MATS or MATTING (Rubber)

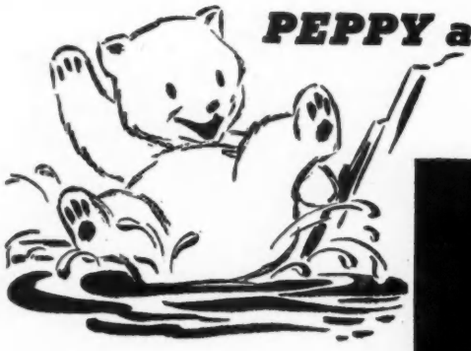
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Tuftex." (Mats.)
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich. (Mats.)
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas, Tex. "Feather Flex." (Mats.)
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1946 Liberty St., Erie, Pa. (Matting.)
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex. "Guard-A."
Dayton Rubber Mfg. Co., 2342 W. Riverside Ave., Dayton 1, Ohio.
Doan Mfg. Corp., 1761 London Road, East Cleveland 12, Ohio. "Armor-Flex."
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla. (Mats.)
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco." (Mats.)

If you cannot find the product you seek, see "Specialized Products" at end of listing.

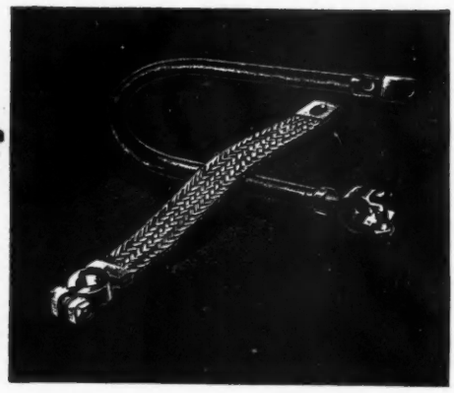
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Gordon Co., J. P., 232 Neilson St., Columbus 16, Ohio.
Gross Rubber Co., Carver Bldg., Sharon, Pa.
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio. (Mats.)
Mitchell Rubber Co., R. L., 2130 San Fernando Rd., Los Angeles 65, Calif. "Stand Easy."
Moore and Co., Samuel, Mantua, Ohio. "Rub-Rub."
Niagara Fabric Mfg. Co., 26 Waverly Pl., New York 3, N. Y.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Paine & Williams Co., 4614 Prospect Ave., Cleveland 3, Ohio. "PW." (Mats.)
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn. (Mats.)
Richardson Co., Lockland, Ohio.
St. Clair Rubber Co., 440 Jefferson Ave., East, Detroit 26, Mich.
Schwartz Rubber Corp., R. H., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All." (Mats.)
Seiberling Rubber Co., Akron 9, Ohio. (Mats.)
Stello Products Co., 704 S. Main St., Hutchinson, Kans. "Car-Mat." (Mats.)
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wooster Rubber Co., E. Bowman St., Wooster, Ohio. "Rubbermaid Kar-Rugs." (Mats.)
Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

METERS, Air Tower (Automatic)

Delta Products Div., Wayne Pump Co., Van Buren & Palmwood Aves., Delta, Ohio. "Air-Scale."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco." (Automatic.)
Romort Mfg. Co., Oakfield, Wis. "Romort," "Arno."



PEPPY as a polar bear in a freeze



BLUE STREAK battery cable

FOR A PERFECT CONNECTION

WINTER-PROOF! Even when the mercury's down to zero, Blue Streak battery cable carries the juice.

HEAVY DEFENSE! Blue Streak's exclusive battle-ship lug is twice the thickness of an ordinary lug; sturdier under strain and engine vibration.

NO FUMBLES! Save time! The raised bolt on the Blue Streak terminal allows more working room; makes a tough job easier.

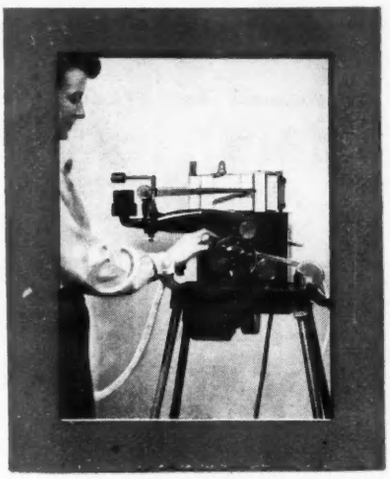
New Boxes!

Big, bold numbers on the new Blue Streak and Standard boxes help you find the right cable in a jiffy.

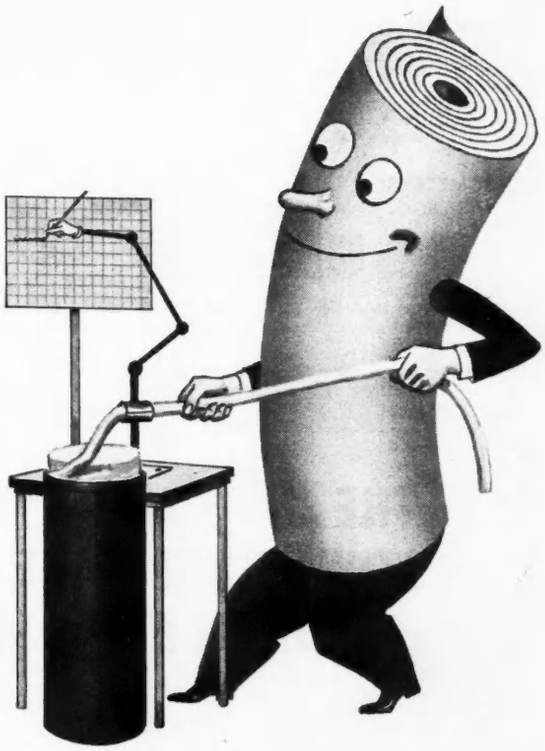
SEE YOUR JOBBER. *Use Blue Streak battery cable in all your winter tune-up jobs; you'll make more friends and more money, too.*

BLUE STREAK

STANDARD MOTOR PRODUCTS, INC.
37-18 Northern Boulevard • Long Island City 1, New York



CHECKING EVENNESS OF SLIVER WITH LINEAR REGULARITY TESTER. One of a series of laboratory controls throughout production to assure fabric uniformity in all Mt. Vernon-Woodberry products.



UNIFORMITY

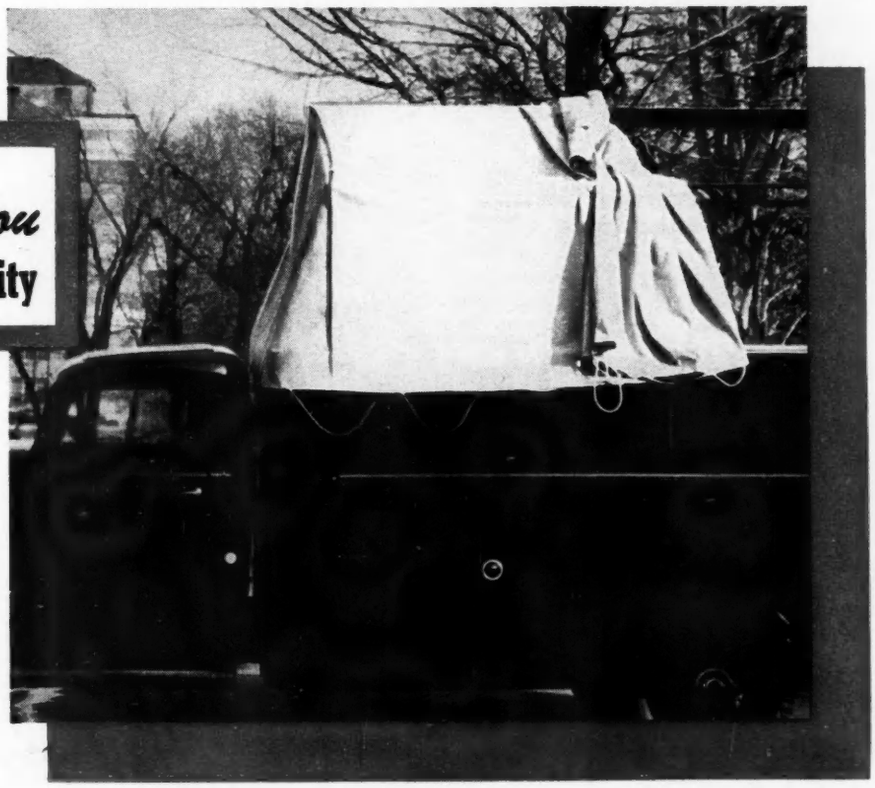
Makes the Big Difference

In TRUCK COVER Fabrics

Mt. VERNON EXTRA

Gives You

Greater Fabric Uniformity



The greater uniformity of Mt. Vernon Extra Duck—the straight, smooth, weather-tight seams made possible by its even selvedges — mean added cargo protection, longer wear, lower repair and replacement costs.

Mt. Vernon-Woodberry Mills

Branch Offices: Chicago • Atlanta • Baltimore • Boston • Los Angeles • Akron

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METERS, Air Tower (Automatic)—cont.

Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Eco Tireflater." (Combination air & water supply unit also.)

MICROMETERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Central Tool Co., 467 Wellington Ave., Cranston 10, R. I.
Federal-Mogul Service, Detroit 13, Mich. (Crankshaft gage.)

Federal Products Corp., 1144 Eddy St., Providence 1, R. I. (Indicating.)
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Millers Falls Co., Greenfield, Mass.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "P & W Supermicrometer."
Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif. (Inside.)
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Swedish Gage Co., 8900 Alpine Ave., Detroit, Mich.
Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.
Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

MIRRORS, Panel (For Buses)

Acme Specialty Mfg. Co., 2298 Smead Ave., Toledo 6, Ohio.
Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

MIRRORS, Rear View

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee."
Anthes Force Oiler Co., Fort Madison, Iowa. "Anthes Mirror Head."
Arrow Safety Devices Co., Mt. Holly, N. J.
Aves Electric Co., 2010 S. Westgate Ave., Los Angeles 25, Calif. "Aeco" (clamp on); "Cobra."
Bolser Corp., S. Main St., Cedar Falls, Iowa. "Ful-Vue."
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Mirror Products Co., 13700 Lyndon St., Detroit 27, Mich.
Mosby Mfg. Co., 13 N.E. Main St., Minneapolis 13, Minn. (Folding.)
Noblitt-Sparks Industries, Inc., Columbus, Ind.
Norlipp Co., 568 W. Congress St., Chicago, Ill.
Peters & Russell, Inc., Shuey Bldg., Center & Jefferson Sts., Springfield, Ohio.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio. (Steel and aluminum.)
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich.
Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich. "Hindview."
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

MOLDING, Drip (Metal)

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda." (Brass and nickel-silver.)
Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit, Mich. "HerZim."
Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Brass and steel.)
Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.
Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
Reynolds Metals Co., Louisville 1, Ky.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind. "Alite." (Aluminum and steel.)

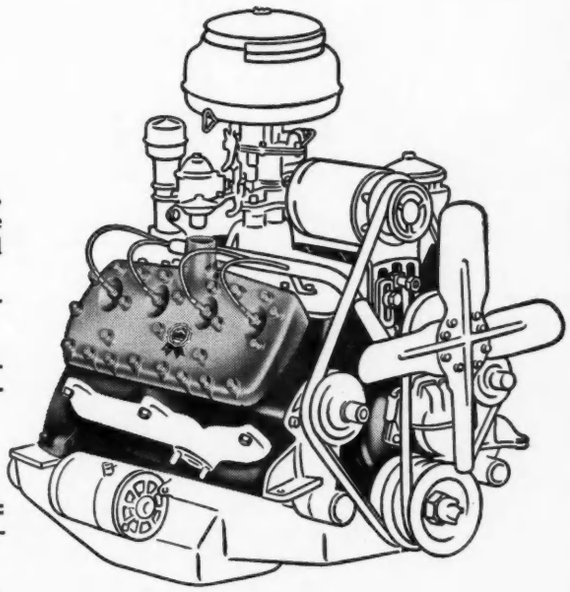
MOLDING, Finish (Metal)

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.

For Your High Mileage Fords...

Authorized

Reconditioned Ford Engines and Engine Accessories



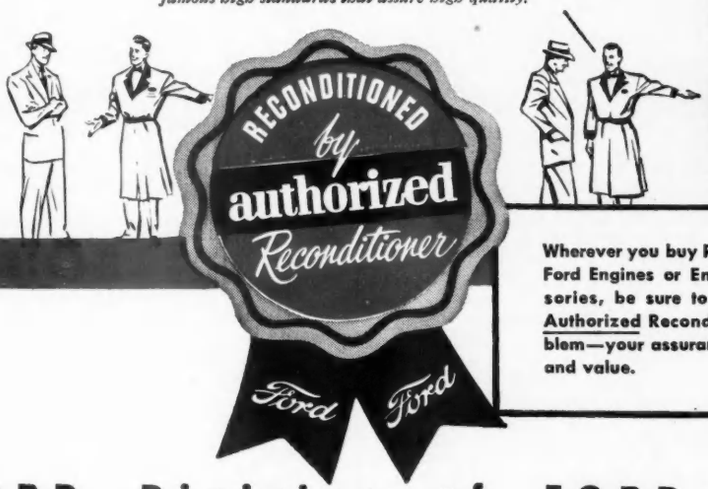
When it's time to re-power high-mileage units, your Fords deserve the high quality, performance and long life of Authorized Reconditioned Ford Engines.

ONLY Authorized Reconditioned Ford Engines give you this "Big Four" value:

1. **Thoroughly reconditioned to Ford's famed hi-precision standards by Authorized Reconditioners.**
2. **Genuine Ford Parts used throughout.**
3. **Engines rigidly block-tested and inspected.**
4. **Backed by Authorized Reconditioner's specific guarantee for 4,000 miles or 90 days, whichever occurs first.**

So do away with "down time" and expensive temporary repairs. Use Authorized Reconditioned Ford Engines and Engine Accessories. They keep Fords *all* Ford for efficient, economical performance.

This close-up photo shows part of a boring bar designed specially for Authorized Reconditioners to meet Ford's famous high standards that assure high quality.



Wherever you buy Reconditioned Ford Engines or Engine Accessories, be sure to look for the Authorized Reconditioner's emblem—your assurance of quality and value.

FORD Division of FORD MOTOR COMPANY

MOLDING, Finish (Metal)—cont.

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
Aluminum Goods Mfg. Co., Manitowoc, Wis. (Aluminum and stainless steel.)
American Brass Co., 414 Meadow St., Waterbury 88, Conn. "Anaconda." (Brass.)
Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Brasco Mfg. Co., Harvey, Ill. (Steel.)
Dahlstrom Metallic Door Co., Special Products Div., 429 Buffalo St., Jamestown, N. Y.
Detroit Moulding Div. of L. A. Young Spring & Wire Corp., 1601 Clay Ave., Detroit, Mich. (Steel.)
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Electric Auto Lite Co., Bay Mfg. Div., Bay City, Mich.
Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.
Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit 34, Mich. "HerZim."
Hurd Lock & Mfg. Co., Almand, Mich.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
Merrimac Brass Fdry. Co., 22 High St., Merrimac, Mass. (Brass, nickel and chromium plated.)
Metal Forming Corp., 1937 Sterling Ave., Elkhart, Ind. "Mefco." (Aluminum, brass, steel, stainless steel and nickel alloy.)
Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Steel.)
Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
Randall Co., 5000 Spring Grove Ave., Cincinnati, Ohio. (Steel.)
Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
Reynolds Metals Co., Louisville 1, Ky.
Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Brass and steel.)
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich. (Garnish.)
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind. "Alite." (Aluminum, brass and steel.)

MOLDS, Tire Recapping and Retreading

Akron Equipment Co., E. Exchange & Annadale St., Akron, Ohio. "Tyrwelder."
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)
Center Line Mfg. Co., 503 N. Wichita St., Wichita, Kan.
Firestone Tire a Rubber Co., S. Main St., Akron, Ohio.
Heintz & Co., James C., 3738 W. 14th St., Cleveland, Ohio.
Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure."
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Cal. "Lodi."

MONORAILS—See Cranes, Monorail

MOTOR OIL, See Oils & Lubricants (Engine & Chassis)

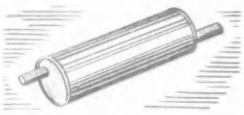
MOTORS, Starting (Electric)

Auto-Lite Battery Corp., Owens-Dyneto Corp., 1920 Park St., Syracuse, N. Y.
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Elsco."
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N."

MOUNTINGS, Rubber, Insulated

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Engine, for Ford and Chevrolet cars.)
Doan Mfg. Corp., 1761 London Road, East Cleveland 12, Ohio. "Armor-Flex."
Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Engine and radiator.)
Harris Products Co., 1929 E. 61st St., Cleveland 3, Ohio. "Duflex."
Hewitt Rubber Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (Engine, for Ford cars.)
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Shear type.)
M B Mfg. Co., 1060 State St., New Haven 11, Conn. "Isomode."
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Powell Muffler Co., 729 Broad St., Utica 2, N. Y. (Engine.)
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)

MUFFLERS, Exhaust



AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. (For autos, buses, trucks and tractors.)
Alexander-Tagg Industries, Inc., Jacksonville Rd. & Sommit Ave., Hatboro, Pa. "ATI."
Almquist Engrg. & Mfg. Co., Milford, Pa.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Arvin Industries, Inc., Columbus, Ind.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Caulkins Mufflers, P. O. Box 724, New London, Conn.
Defiance Mfg. Co., Defiance, Ohio.
Donaldson Co., Inc., 666 Pelham Blvd., St. Paul 4, Minn. (Truck.)
Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Grancor Automotive Specialists, 5652 W. Broadway, Chicago 4, Ill.
Haviland Co., Arnold, Defiance, Ohio. "O. K."
Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.
Hill Mfg. Co., C. L., 210 South Ave., E., Cranford, N. J. (Vacuum, for autos, trucks and tractors.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hy-Power."
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
MacKenzie Muffler Co., N. Meridian Rd., Youngstown 9, Ohio.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Auto, truck and bus.)
Oldberg Mfg. Co., 620 N. Seventh St., Grand Haven, Mich.
Powel Muffler Co., 315 Oriskany St. E., Utica 2, N. Y.
Pratt Industries, Inc., Frankfort, N. Y.
Thickstun Mfg. Co., 118 Lomita St., El Segundo, Calif.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Exhaust Silencers." (Individually tuned.)

NOZZLES, Air

(See also Chucks, Air, Tire Inflating)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
Amseco, Inc., 564 W. Randolph St., Chicago 6, Ill.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill. "Clements-Cadillac."
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal. "Tru-Flate."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
International Metal Hose Co., Div. of Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Tri-Con."
Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Superior Mfg. Co., Div. of Bingham Herbrand Corp., 1302 Ontario St., Cleveland 13, Ohio. "Bully."
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

NOZZLES, Fuel

(See also Pumps, Gasoline)

Buckeye Iron & Brass Works, Dept. C, Box 883, Dayton 1, Ohio. "Buckeye Safety-Fill Nozzle."

NOZZLES, PAINT SPRAY—See Sprayers, Paint, Varnish and Lacquer

NUTS, Lock and Self-Locking

Automatic Nut Corp., Lebanon, Pa. "Anco."
Blaisdell Mfg. Co., 1404 Alamitos Ave., Long Beach 13, Calif.
Boots Aircraft Nut Corp., 50 John St., Stamford, Conn. "Hexlock," "Trilok." (Self-locking.)
Boss Bolt & Nut Co., 3403 W. 47th St., Chicago 32, Ill.

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SAFETY PAYS . . .
on our busy highways!

ANTHES OFFERS YOU A CHOICE OF FLARES IN RELIABLE OIL OR APPROVED REFLECTOR

YES, safety *can* pay dividends in lives saved and in dollars saved. The price of safety is vigilance and *proper safety* equipment. Anthes can supply you with approved quality-built equipment. The two units shown above now in most popular demand make Anthes *the first line of safety*. Write for catalog.

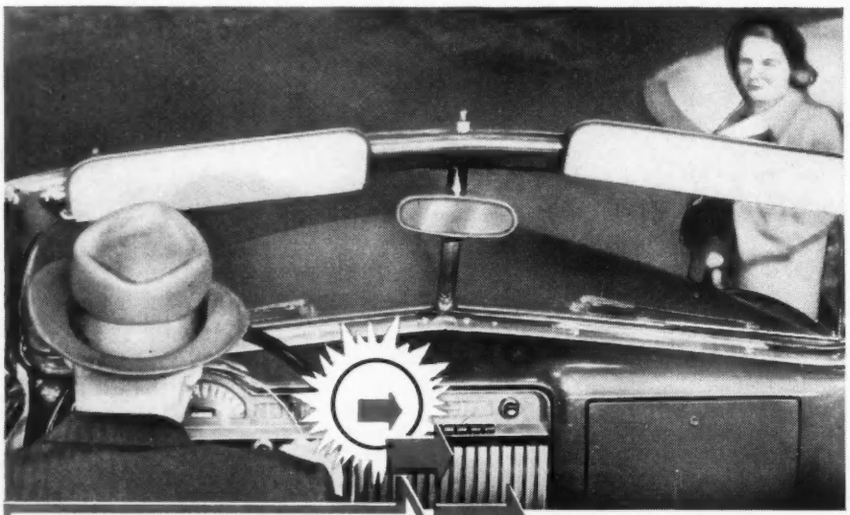
ANTHES FORCE OILER CO. • FORT MADISON, IOWA

Anthes THE FIRST LINE OF SAFETY

. . . and proud to serve the safest drivers on the road!

NUTS, Lock and Self-Locking—cont.

Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. "Champloc."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co. (Reliance Spring Washer Div.), Massillon, Ohio.
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. "Esna." (Self-locking.)
Garrett Co., George K., D & Tioga Sts., Philadelphia 34, Pa. "Diamond G."
Grip Nut Co., 310 S. Michigan Ave., Chicago 4, Ill. "Gripco."
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. "Hillco."
Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "An-Cor-Lox."
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Lock Thread Corp., 2833 E. Grand Blvd., Detroit 11, Mich. "Dardelet." (Licensors.)
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. "Drake," "Dynamic," "Marsden," "Huglock."
Palnut Co., 54 Cordier St., Irvington 11, N. J. (Combination lock washer and nut.)
Prestole Corp., 1345 Miami St., Toledo 5, Ohio.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Marsden," "Tri-Slot." (Licenses.)
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)
Security Locknut Corp., 1815 N. Long Ave., Chicago 39, Ill.
Simmons Fastener Corp., N. Broadway, Albany, N. Y.
South Chester Corp., 1418 S. Penn Square, Philadelphia 2, Pa.
Standard Locknut & Lockwasher Co., 309 N. Capitol Ave., Indianapolis 4, Ind. (For ball and roller bearings.)
Standard Pressed Steel Co., Jenkintown, Pa. "Flexloc." (Self-locking.)
Stover Lock Nut & Machinery Corp., Bushkill Drive, Easton, Pa.
Thompson-Bremer & Co., 1640 W. Hubbard St., Chicago 22, Ill.
Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio. "Speed Nuts." (Self-locking.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Whittet-Higgins Co., P. O. Box 1613, Providence, R. I. (Lock, for ball and roller bearings.)



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means greater safety on the highway

Illuminated direction signals for motor vehicles are fast approaching the "standard equipment" classification of safety glass and sealed beam headlights. As the use of lights for this and other signaling purposes becomes universal, TUNG-SOL Flashers assume greater importance as part of any automotive system.

TUNG-SOL Flashers start instantly and provide the commanding blinking action for the signal—plus the important safety pilot light on the instrument panel. This pilot light when properly installed provides positive indication for the driver that the system is working properly.

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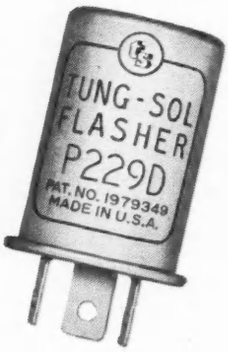

TUNG-SOL SIGNAL FLASHERS

ALSO AUTO LAMPS, ALL-GLASS SEALED BEAM LAMPS AND ELECTRON TUBES

ODOMETERS

(See also Speedometer)

Barbour Stockwell Co., 205 Broadway, Cambridge 39, Mass. (Hub.)
Knopf Instrument Co., 250 Culver Ave., Jersel City 5, N. J. "PeKa."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "Ustcograph."
Veeder-Root Inc., 20 Sargeant St., Hartford 2, Conn.

OILS AND LUBRICANTS (Engine and Chassis)

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Freedom Valvoline Oil Co., Freedom, Pa.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.
Lion Oil Co., El Dorado, Ark.
Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Ohio Oil Co., Findlay, Ohio.
Pennsylvania Refining Co., Butler Saving & Trust Bldg., Butler, Pa.
Pennzoil Co., Oil City, Pa.
Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.
Quaker State Oil Refining Co., Oil City, Pa.
Shell Oil Co., 100 Bush St., San Francisco 6, Calif.
Shell Oil Co., 50 W. 50th St., New York, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York, N. Y.
Sonneborn Sons, L., 300 Fourth Ave., Amalie Div., New York.
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago, Ill.
Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.
Texas Co., 135 E. 42nd St., New York, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.
Waverly Petroleum Products Co., 578 Drexel Bldg., 5th & Chestnut Sts., Philadelphia, Pa.
Wolf's Head Oil Refining Co., Oil City, Pa.

OIL CANS, See Cans, Oiling

OIL DRAINERS, See Drainers, Crankcase Oil

OIL FILTERS, See Filters, Oil

OIL GAGES, See Gages, Oil Pressure

OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)

OIL RECLAIMERS, See Reclaimers, Crankcase Oil

OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease

OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)

OIL TESTING INSTRUMENTS, See Viscosimeters

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Proving ground tests . . . tests that simulate fleet operation . . . show that replacement costs decrease when fleets use Raybestos Heavy Duty Clutch Facings, Brake Blocks — or PG Truck Sets, factory-packaged in the right combination of linings.
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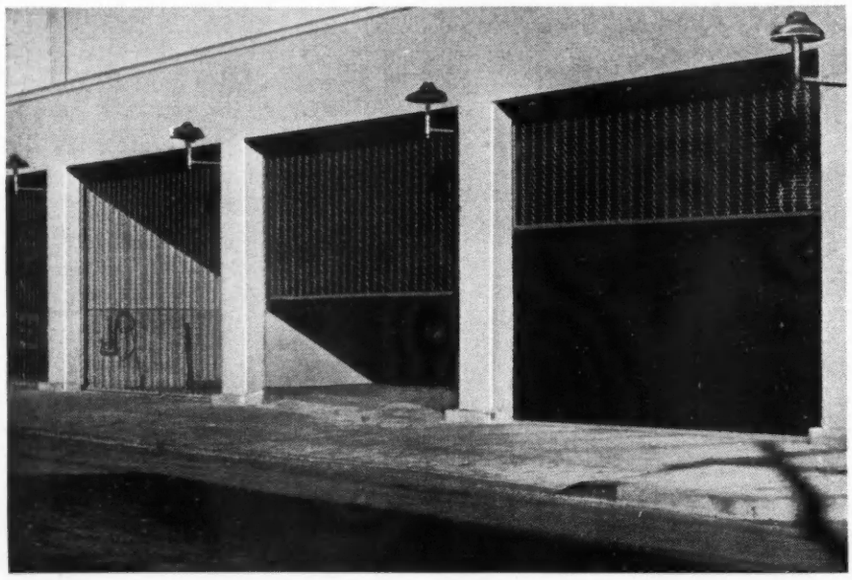
CONVENIENT
ATTRACTIVE
ALL-STEEL

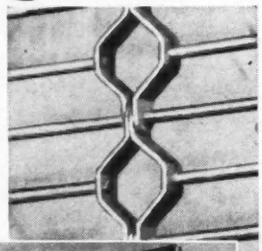
Protection

that doesn't cut off light, air or vision

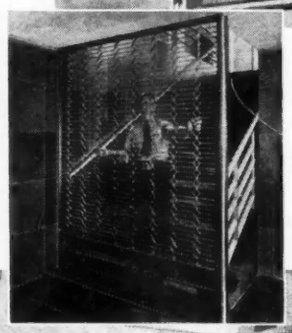


Kinnear Steel Rolling Grilles

For Windows, Doorways, Corridors



This all-metal barricade guards any opening with a curtain of rugged steel rounds and links. Yet it doesn't cut off light, doesn't block vision, doesn't impede ventilation. It can be lowered into place or raised out of the way in a matter of seconds! It offers convenient protection without loss of architectural beauty. As the pictures here testify, it's the ideal way to prevent trespassing in areas where the public assembles, or wherever it is desirable to block off certain sections of a building.



Kinnear Rolling Grilles open straight upward and coil into a small, out-of-the-way space above the opening. No usable floor or wall space is wasted. In many installations, the mechanism on which the Grilles coil when opened can be concealed within the lintel construction.

Kinnear Rolling Grilles are made to fit any size window, doorway, corridor, stair-well, elevator shaft or other opening. They can be equipped to operate manually, mechanically (by chain or crank) or electrically. Easily installed in old or new buildings. Write for complete details.

The KINNEAR Manufacturing Co.

Factories: 2100-20 Fields Ave., Columbus 16, Ohio
1742 Yosemite Avenue — San Francisco 24, California
Offices and Agents in All Principal Cities

KINNEAR
ROLLING GRILLES

COMMERCIAL CAR JOURNAL'S ANNUAL
BUYERS' DIRECTORY NUMBER

OILERS, UPPER CYLINDERS, See Lubricators, Upper Cylinders

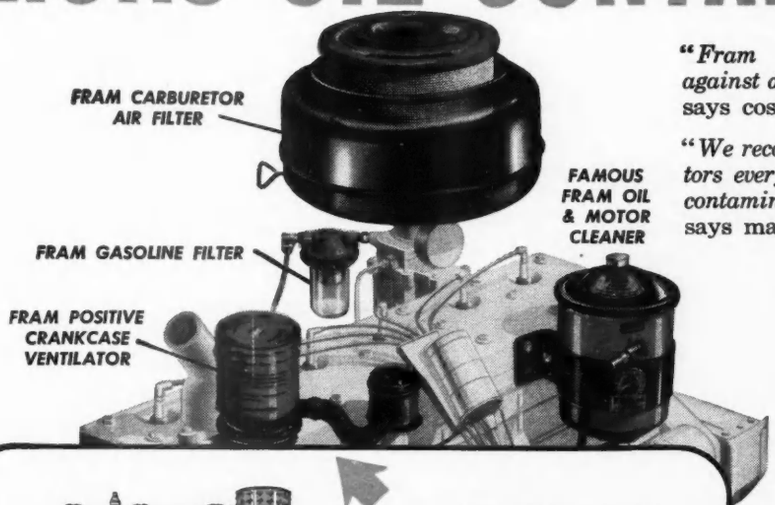
OILS, PENETRATING, See Rust Preventives

OILS, Upper Cylinder

A P Parts Corp., A P Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. "M P," "dgf 123."
Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Dag," "Oildag."
Alox Corp., 70 Pine St., New York 5, N. Y.
Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Automotive & Marine Products Co., 87 Harvard Ave., Boston 34, Mass.
Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Colonel Speedy."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Valv-Aid."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
Casite Corp., Hastings, Mich.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Christy Chemical Corp., 21 Putnam St., Worcester 4, Mass.
Curran Corp., S. Canal St., Lawrence, Mass. "Motor Fizik," "Gunk Dunk."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
Drew & Co., E. F., 15 E. 26th St., New York 10, N. Y. "Drew-Purge."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Dyna-Vita."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Mystery Oil."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xlube."
Friction Proof Oil Corp., 200 Fifth Ave., New York 10, N. Y. "Power Ball."
Grafo Colloids Corp., Grafo Bldg., 310 Wilkes Place, Sharon, Pa. "Grafolene."
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Motor Rythm."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "S.M.L.," "MFC."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kano Laboratories, 75 E. Wacker Drive, Chicago 1, Ill. "Kano Kreen."
Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis.
Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.
Mergraf Oil Products Co., P. O. Box 95, Northville, Mich. "Topper."
National Refining Co., 500 Hanna Bldg., 14th & Euclid Ave., Cleveland 15, Ohio. "Enarco Tune."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumout," "Fuel Mix."
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y. "Permatex Toon-Oyl."
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Pyroil Co., 122 Main St., La Crosse, Wis.
Radiator Specialty Co., 1722 Dowd St., Charlotte 1, N. C. "Nu-Power."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Motor Magic."
Rust Master Chemical Corp., 50 Creighton St., Boston, Mass. "Six Master."
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Noxo."
Shaler Co., Waupun, Wis. "Karbout," "Rislone."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. "Donax," "Shell."
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Upperlube."
Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y. "Gas-Lube."
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. "Fretone."
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stano-Vim."
Standard Oil Co. of Texas, 1600 City National Bank Bldg., Houston, Tex. "RPM."

Fleet Operators, Oil Experts say—

"FRAM POSITIVE CRANKCASE VENTILATOR LICKS OIL CONTAMINATION"



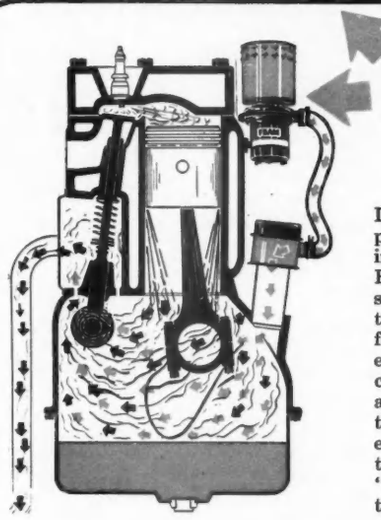
"Fram Positive Crankcase Ventilator insures against dilution . . . a good safeguard in all cases," says cost-minded fleet superintendent.

"We recommend Fram Positive Crankcase Ventilators every time on problems involving excessive oil contamination and low temperature deposits," says major oil company executive.

THESE MEN have tested the Fram Positive Crankcase Ventilator and proved it's one of the greatest cost-cutting engine-savers ever offered to fleets. Compact, economical and it *really licks sludge*. Indispensable in cases of contamination and dilution due to low-speed, cold engine and stop-and-go driving. Saves engines, oil and oil filter cartridges by removing corrosive blow-by gases as they form.

But Fram offers you more! You can get Fram Filters for every fleet job . . . to filter oil, air or fuel on cars, trucks or buses. Fram offers you top-quality replacement cartridges for every oil filter made. You can get Fram Complete Engine Protection . . . four great filters (as shown above, left) that seal out abrasives at every vital point, remove corrosives where and when they form.

AND NOW, Fram offers you the amazing new Lubri-Graf for an instant visual check on oil, engine and cartridge condition. Saves you money on oil and cartridge changes. Users report reduced maintenance costs—increased engine life. Test it FREE! Send coupon now.



How the FRAM Positive Crankcase Ventilator *Stops Sludge*

Dust-laden air is filtered clean as it passes through FRAM-TEX filtering media in Fram Crankcase Air Filter. Electrically-driven blower starts the moment ignition switch is turned on. Provides a constant, uniform flow of clean air regardless of engine or vehicle speed. Flexible hose connects unit to special oil filler cap assembly. Clean air circulates through crankcase, sealing against entry of dirt from all points. Ventilation carries sludge-and-acid-forming "blow-by" fumes and vapors out through road draft tube before they contaminate the oil.

For Complete Engine Protection

FRAM

OIL - AIR - FUEL

FILTERS

MAIL COUPON NOW

for FREE FRAM Lubri-Graf!

FRAM CORPORATION, Dept. C-11, Providence 16, R.I.
Please send me FREE Fram Lubri-Graf.
Name .....
Company .....
Address .....
.....
No. of vehicles in fleet .....
We regularly purchase through .....
.....

OILS, Upper Cylinder—cont.

Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Stanley's Motor Pep."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Cranksol."
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City, Mo. "Z-4."
United States Aviex Co., 1350 Maple St., Niles, Mich.
Universal Chemists, 107 Northampton St., Boston, Mass. "Pow'r-Lux."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Oil."
Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa.
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill. "Warner Penetreen."
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco K.O.Carb," "Warco Mo-Tun-Up."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Carbon-Ex," "Friction 'Eez."
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Waverly UVX-4."
White & Bagley Co., 100 Foster St., Worcester, Mass. "Oilzum Vitalube."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wynn Oil Co., 1151 W. Fifth St., Azusa, Calif. "Wynn's."

OVENS, Bonding (Brake Lining)

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Dura-Bond, Inc., 1355 N. Main St., Ann Arbor, Mich. "Brake-Bond," "Dura-Bond."
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. "Evenray," "Durabrake."
Gatke Corp., 228 N. LaSalle St., Chicago, Ill.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Heintz & Co., James C., 3738 W. 143 St., Cleveland, Ohio.
Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.
Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich. "Knu-Bonder."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.

PAINT DRYING LAMPS, See Lamps, Drying, Baking & Heating

PAINT MASKING, See Masking, Liquid and Tape

PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)

PAINT REMOVERS, See Removers, Paint, Enamel and Varnish

PAINTS
(See Enamels; also Lacquer)

PAINTS, Acid-Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio. "Kem-Ban."
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frost's Kapak."
Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)
Perolin Co., 10 E. 40th St., New York 16, N. Y. "Durabel."
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Stonehard Co., 1306 Spring Garden St., Philadelphia 23, Pa.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Alkali Resisting

Ace Laboratories, 1614 Cartaret St., Lakewood, Ohio. "Kem-Ban."
Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

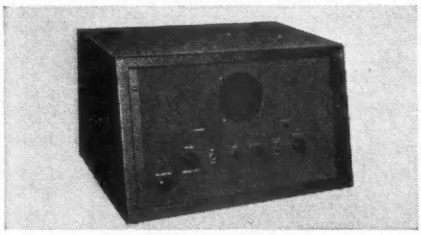
PAINTS, Aluminum and Bronze

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa Albron." (Aluminum powder and paste; pigments for aluminum paint.)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Baer Bros., 438 W. 37th St., New York, N. Y. (Aluminum bronze powder.)
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass. "Modene."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Cal.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 2800 W. 148th St., Cleveland 11, Ohio. (Aluminum.)
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frospar." (Aluminum.)
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Illbronze."
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Chrombrite." (Aluminum.)

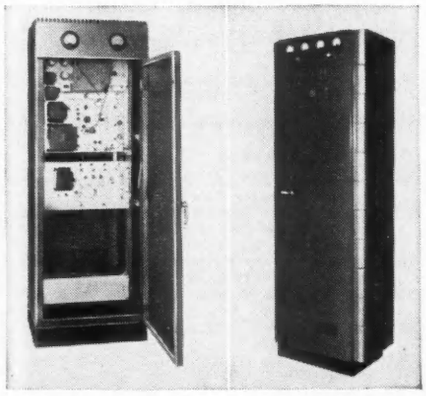
After unbiased comparative tests – the STATE of FLORIDA goes RCA!

Florida uses the complete RCA Fleetfone System

• Mobile Fleetfone 30 watts



• Station Control



• Station Fleetfone 70 watts • Station Fleetfone 250 watts

RCA 2-way Fleetfone radio chosen after tests by the University of Florida Laboratories

WHEN THE Florida State Highway Patrol prepared to expand its 2-way radio system to cover the entire state, competitive bids were invited and manufacturers were asked to submit equipment for tests.

The University of Florida Laboratories submitted these equipments to a series of gruelling tests to determine reliable car-to-car communication distance, adjacent-channel interference, and maximum headquarters-to-mobile range.

Result: Florida has ordered RCA Fleetfone 100%!

• • •

Plan your communications system around *laboratory-approved* equipment. Go RCA. The RCA Fleetfone (for 30 to 50 mc operation) and its companion, the RCA Carfone (for 152 to 174 mc operation) offer the finest in mobile communications.

For information and help on any type of two-way radio system, call or write Dept. 148K, RCA Engineering Products, Camden, N. J.

MOBILE COMMUNICATIONS SECTION
RADIO CORPORATION of AMERICA
ENGINEERING PRODUCTS DEPARTMENT, CAMDEN, N.J.

In Canada: RCA VICTOR Company Limited, Montreal

PAINTS, Aluminum and Bronze—cont.

Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
Reynolds Metals Co., Louisville 1, Ky.
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

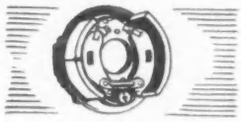
PANELS, Plywood

Harbor Plywood Corp., Hoquiam, Wash. "Harbord," "Super-Harbord," "Harborite."
Haskelite Mfg. Corp., 701 Ann St., N. W., Grand Rapids 2, Mich. "Haskelite," "Plymetl," "Phemaloid," "Plymold."
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Metal covered.)
Technical Ply-Woods, 228 N. La Salle St., Chicago 1, Ill.
United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y. "Weldwood," "Armorply," "Tekwood," "Honeycomb," "Flexwood."

PANELS, STEEL, See Steel, Sheet

PARTS, Brake

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "B-K." (Also hand control valve.)
Bendix Westinghouse Automotive Air Brake Co., 901 Cleveland Road, Elyria, Ohio. (Air.)
Bohn Aluminum & Brass Co., Service Div., Holland, Mich.
Chefford Master Mfg. Co., Fairfield, Ill. "Master." (Hydraulic.)
Clawson & Bals, Inc., See Bohn Aluminum & Brass Co., Service Div. (Hydraulic.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Yokes.)
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Leak Not." (Hydraulic.)
Eis Automotive Corp., Middletown, Conn. (Hydraulic and mechanical.)
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. (Hydraulic.)
Hydraulic Specialties Co., 65 Burbank Dr., Snyder 21, N. Y. "Hyspeco." (Hydraulic pressure limiting valves.)
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (Hydraulic, for Ford and Chevrolet cars.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Vacuum power brake valves and chambers.)
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)
Lorraine Mfg. Corp., 54 W. Hunter Ave., Maywood, N. J. (Hydraulic brake rubber cups, boots; also valves.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit, Mich. "Mapco."
Mercury Brake Products Co., 1532 W. Fulton St., Chicago 7, Ill.
Midland Steel Products Co., 6666 Mt. Elliott Ave., Detroit 11, Mich. (Air conversion valve kit.)
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Monroe Standard, Inc., Galion, Ohio.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (Hydraulic.)



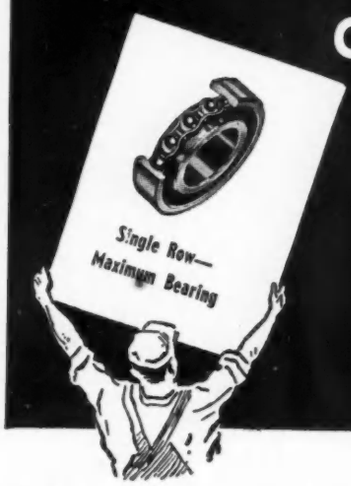
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco." (Hydraulic.)
New York Air Brake Co., 420 Lexington Ave., New York 17, N. Y. "Hycon." (Hydraulic pressure limiting valves.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Hydraulic.)
Otto Items, Inc., 4390 Olive St., St. Louis 8, Mo. "Tru-Torque." (Hydraulic.)
Par Mfg. Co., 3765 93rd St., Jackson Heights, L. I., N. Y. (Cups, boots and valves; diaphragms for air, vacuum brakes.)
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich. (Vacuum power brake valves.)
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Seale, Inc., Homer T., 5320 Alhambra St., Los Angeles 32, Calif. "Sealco." (Relay emergency valve, for trailers.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Hydraulic and vacuum power booster.)
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Cylinders.)
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van." (Master cylinders.)
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis. (Vacuum power, for trucks and trailers.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Air and hydraulic.)
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio. (Hydraulic.)

PARTS, BODY, See Body Parts (Pre-Shaped)

PARTS, Carburetor

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
International Spare Parts Co., 5-01 46th Rd., Long Island City 1, N. Y.
National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla.
Octa-Gane, Inc., 605½ W. Las Turas Drive, San Gabriel, Calif.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Precision Automotive Components Co., 7263 Lansdowne St., St. Louis 19, Mo. "Pacco."

FEDERAL BALL BEARING OF THE MONTH



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Built to take extreme loads, the Federal maximum capacity bearing insures long life and trouble-free operation for heavy equipment.

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1. Complete coverage—Immediate Jobber Service backed by complete warehouse and factory stocks near you.
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ONE OF AMERICA'S LEADING BALL BEARING MANUFACTURERS

Quality Since 1908

New Jersey Carrier Operator Lauds Winslow Savings

The performance of Winslow Filters on the fleet of Cummins Diesels operated by Kirbery Transportation Inc. throughout New Jersey, is worth the attention of every motor transport owner. Used for more than four years on the firm's semi-trailer petroleum carriers, which range from 5000 to 6200 gallons capacity and which travel over flat and mountainous roads, Winslow Filters have reduced engine wear and costs, according to K. F. Kirbery, the company's treasurer.

Here's what he says: "It has been our experience that main and connecting rod bearing wear is indicated by oil pressure drop... With Winslow Oil Conditioner Model 8-931-C on Cummins Diesels this has not occurred and we have greatly extended our former overhaul periods."

Winslow Filter Model 8-931-C used on Kirbery Transportation Inc. trucks brings savings to owner.

WINSLOW FILTERS

503-T-2 **Winslow Engineering Company** **4069 Hollis Street • Oakland 8, California**

PARTS, Carburetor—cont.

Simmons Mfg. Co., Ashland, Ohio.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.

PARTS, Clutch

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Pressure assembly component parts.)
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko." (Forks.)
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16, Ill.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg & Beck," "Long," "Rockford."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. (Springs and fork kits.)
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)
Perfect Parts, Inc., 55 Amsterdam Ave., New York, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.
Wellman Co., S. K., 1375 E. 51 St., Cleveland, Ohio. "Velvetouch."

PARTS, Distributor, See Parts, Magneto, Coil and Distributor

PARTS, Front End Suspension

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Chefford Master Mfg. Co., Fairfield Ill. "Master."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Hershey Metal Products Co., Geary Div., Derby 2, Conn.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
Master—See Chefford Master Mfg. Co.
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo. (Knee action coil springs.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Moog Coil Action Parts Co., Div. of Moog Industries, 6650 Easton Ave., St. Louis 14, Mo.
Neapco Products, Inc., Scott & Cross Sts., Pottstown, Pa.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Pressed Metals of America, Inc., Port Huron, Mich. (Distributors to replacement trade, McQuay-Norris Mfg. Co., Connersville, Ind.; Thompson Products, Inc., Cleveland, Ohio.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. (For Chevrolet cars.)

PARTS, Fuel Pump

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Push rods.)
Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "Air Link."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Chefford Master Mfg. Co., Fairfield, Ill. "Master."
Clawson & Bals, Inc., 2508 S. Michigan Ave., Chicago 16, Ill.
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y. "Monoflex."
International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For A. C. pumps.)
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Rapids, Mich. (Shafts.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Simmons Mfg. Co., Ashland, Ohio. (For Ford, Chevrolet and Plymouth cars.)
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van."

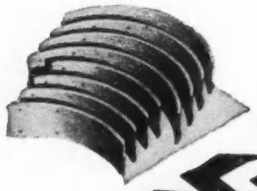
PARTS, Generator

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
Koch Mfg. Co., Box 368, Springfield, Ohio.
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."

MORE THAN *good* PERFORMANCE

JOHN L. SULLIVAN became the world's heavyweight champion in 1889 by knocking out Jake Kilrain after 75 rounds of bare knuckle fighting.

MOLD-BLOK MAKES ITS OWN RECORDS IN DAY BY DAY PERFORMANCE THAT IS BETTER THAN GOOD. ON THE FLEETS OF MANY OPERATORS IT GIVES EXCEPTIONAL SERVICE YEAR AFTER YEAR.



MOLD-BLOK BRAKE LINING

- NON SQUEAL
- NON-SCORING OF DRUMS
- LOWER COST PER MILE TO OPERATE
- UNIFORM CO-EFFICIENT OF FRICTION

MOLDED MATERIALS DIVISION
OF
CARLISLE CORPORATION
RIDGWAY, PA.

PARTS, Generator—cont.

Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

PARTS, LIST, See List, Parts

PARTS, Magneto, Coil and Distributor

American Hard Rubber Co., 11 Mercer St., New York 13, N. Y.
American Motor Products Co., Fond du Lac, Wis. "Ampco." (Distributor rotors.)
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo. (Caps and rotors.)
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Echlin Mfg. Co., 220 East St., New Haven, Conn. (Coil and distributor.)
D.S.M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Distributor caps and rotors.)
Guaranteed Parts Co., Seneca Falls, N. Y. "GP." (Rotors.)
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (Distributor plates, for Ford cars.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y. (Distributor heads and rotors.)
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 156 Astor St., Neward 5, N. J. "Vulcan." (Distributor plates, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Parco—See Parts Mfg. Co.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill. (Distributor caps and rotors.)
Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y. (Distributor heads and rotors.)
Spark-O-Liner Corp., 601 11th Ave. S., Minneapolis 4, Minn. (Distributor saver rings.)
Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Distributor heads and rotors.)
Synchromatic Mfg., Inc., 714 Bryant St., Jackson, Mich. (Distributor plates.)
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y. (Distributor.)
Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill. "Van." (Distributor.)
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go." (Distributor caps and rotors.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Distributor.)

PARTS, Starting Motor Drive

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. (Springs.)
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Springs.)
Carston Mfg. Co., 431 W. 38th St., New York 1, N. Y.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Bendix."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Keystone Carbon Co., 1935 State St., St. Marys, Pa.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio. (Bolts.)
Loock & Co., R. J. 343 N. Gay St., Baltimore, Md. (Screws.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla. (Bushings and assemblies.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City L. I., N. Y.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Products Corp., 156 Astor St., Newark 5, N. J.)
Preferred Electric & Wire Co., Bush Ter-minal Bldg. No. 8, Brooklyn 32, N. Y. (Springs.)
Shurhit Products, Inc., Waukegan, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Springs, etc.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio. (Screws and washers.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill. "Van."

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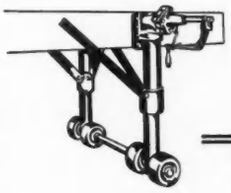
TRUCK & TRAILER EQUIPMENT
LEADERSHIP ACHIEVED THROUGH FORTY YEARS OF GIVING CUSTOMERS A BETTER RUN FOR THEIR MONEY
FIFTH WHEELS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PRODUCERS OF THE AMAZING NEW SAFETY FIFTH WHEEL with the SIXTH SENSE
The solution to the tip-over and the jacknife
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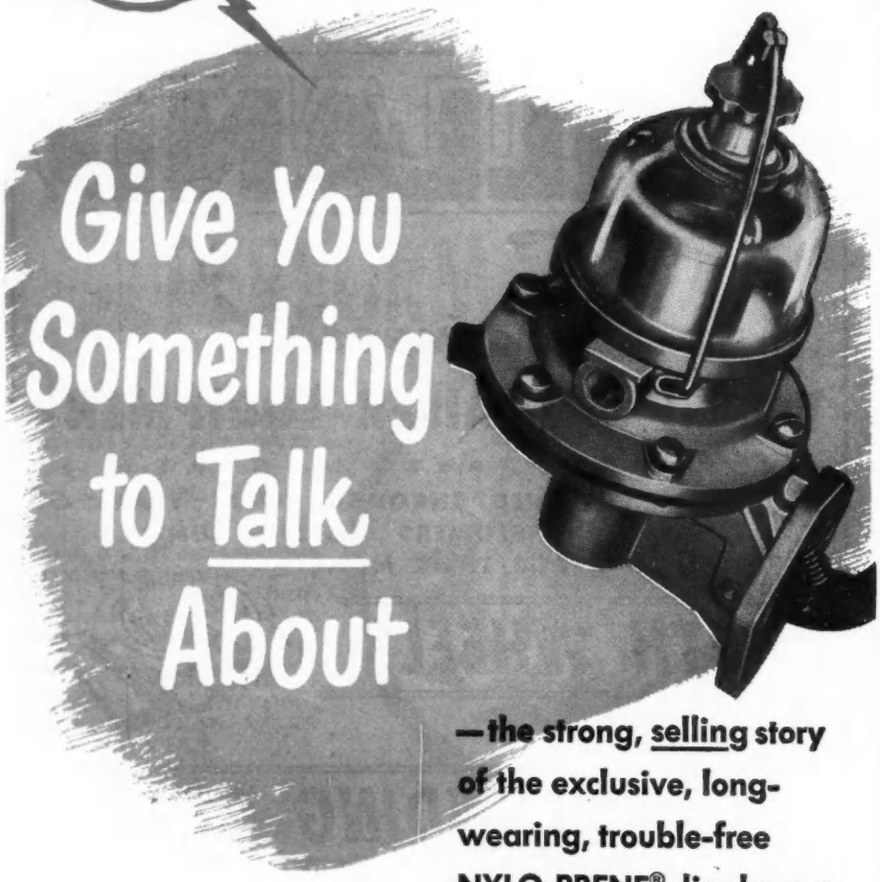

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dePenDable

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LONG ISLAND CITY 5, N.Y.

PARTS, Starting Motor Drive—cont.

Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. (Starter Pedal return springs.)
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y. (Springs, bolts and washers.)
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PINS, King

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.)
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bard Mfg. Co., Royersford, Pa.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohnalite."
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chefford Master Mfg. Co., Fairfield Ill. "Master."
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clawson & Bals, Inc., "Ring True." See Bohn Aluminum & Brass Corp.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Fostoria Screw Co., 250 E. Fourth St., Fostoria, Ohio.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.
Master—See Chefford Master Mfg. Co.
Neapco Products, Inc., Scott & Cross Sts., Pottstown, Pa.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Perfection Spring Co., 11905 Miles Ave., Cleveland 5, Ohio.
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Superior Machine Tool Co., 329 E. Firmin St., Kokomo, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PINS, Piston

Allied Motor Parts Corp., Fox Theatre Bldg., Detroit, Mich.
Auminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Bohn Aluminum & Brass Corp., 1400 Lafayette Blvd., Detroit 26, Mich. "Bohnalite."
Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.
Burgess-Norton Mfg. Co., 758 Peyton St., Geneva, Ill. "B-N Perfectlap."
Chefford Master Mfg. Co., Fairfield, Ill.
Clawson & Bals, Inc., See Bohn Aluminum & Brass Corp.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Marquette Metal Products Co., 1145 Gaywood Drive, Cleveland 10, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Nylen Products Co., Lake Shore Drive, St. Joseph, Mich.

only TIMKEN-DETROIT

Two-Speed Double-Reduction Axles

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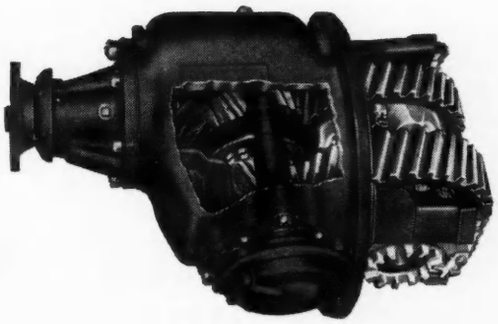

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IT'S THE SPRING THAT MAKES THE DIFFERENCE!

The easy, instantly responsive control of the Timken-Detroit Two-Speed Double-Reduction Final Drive is not dependent upon the type of power unit used (electric, vacuum or compressed air), but is controlled by the flexible, predetermined force of the spring built into the shifting mechanism. It enables drivers to meet *all* conditions of speed, load and road INSTANTLY!

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DETROIT 32, MICHIGAN

The Accepted DTA Standard
TRADE MARK REGISTERED

PLANTS AT: DETROIT AND JACKSON, MICH. • OSHKOSH, WIS. • UTICA, N. Y. • ASHTABULA AND KENTON, OHIO • NEW CASTLE, PA.

PINS, Piston—cont.

Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich. "OSP."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

PIPES, Tail and Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. (Flexible.)
Arvin Industries, Inc., Columbus, Ind.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube." (Bendable.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Uniflex." (Bendable.)
Formed Tubes, Inc., Sturgis, Mich.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Haviland Co., Arnold, Defiance, Ohio. (Also exhaust.)
International Parts Corp., 11th & States Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hy-Power."
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Also bendable.)
Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.
Noblitt-Sparks Industries, Inc., Columbus, Ind. (Exhaust.)
Powell Muffler Co., 315 Oriskany St. E., Utica 2, N. Y.
Pratt Industries, Inc., Frankfort, N. Y. (Also bendable.)
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill. (Flexible tail.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

PISTON EXPANDERS, See Expanders, Piston Skirt

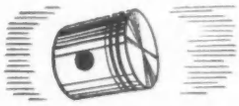
PISTON GRINDING MACHINES, See Machines, Piston Turning and Grinding

PISTON PINS, See Pins, Piston

PISTON RINGS, See Rings, Piston

PISTON RING COMPRESSOR, See Tools, Piston Ring Compressing

PISTONS



Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded and cast iron carriers.)
Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Lo-Ex."
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Arrow Head Steel Products Co., Howell, Mich.
Badger Mfg. Co., 1505 City Court, Marinette, Wis. (Aluminum alloy.)
Balcrank, Inc., Disney St. near Marburg, Cleveland 9, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Nelson Bohnalite," "Bohnalite."
Columbia Engineering Co., 505 W. Vine St., Columbia City, Ind.
Continental Motors Corp., Muskegon 82, Mich.
DeLuxe Products Corp., 1435 Lake St., La Porte, Ind. (Light weight cast iron.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)
Gillett & Eaton, Inc., Lake City, Minn. "G&E."
Jahn's Quality Piston Co., 2652 Lacy St., Los Angeles, Calif.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Aluminum and gray iron.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products Co., Lake Shore Drive, St. Joseph Mich. (Aluminum and gray iron.)
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
San Diego Machine Co., 345 15th St., San Diego 12, Calif. "Realite."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind. (Aluminum and cast iron.)
Sterling Aluminum Products, Inc., 2925 N. Market St., St. Louis 6, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."
Triplex Corp. of America, P. O. Box 666, Pueblo, Colo.
Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
United Engine & Machine Co., 310 Preda St., San Leandro, Calif. "Silv-O-Lite."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

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VL FIRE EXTINGUISHERS

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DAYTON 1, OHIO
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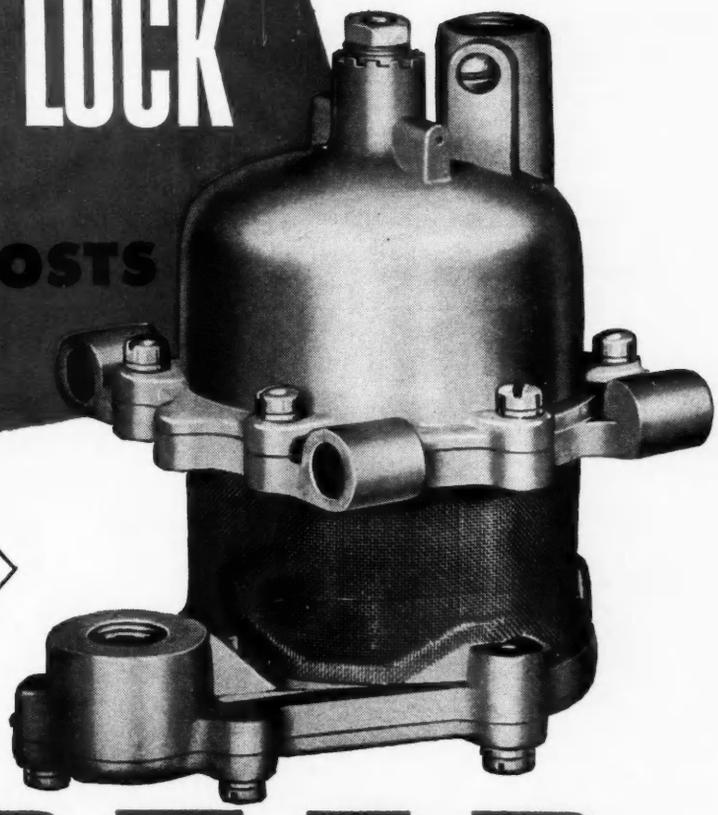
CUT
MAINTENANCE COSTS
REDUCE
ROAD FAILURES



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PISTONS—cont.

Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.
Zollner Machine Works, Fort Wayne, Ind. (Aluminum alloy.)

PISTON RINGS, See Rings, Piston

PISTON RING EXPANDERS, See Expanders, Piston Ring

PLATES, Clutch, Pressure

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Wellman Co., S. K., 1374 E. 51 St., Cleveland, Ohio. "Velvetouch."

PLATES, Step

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago, Ill. "King Bee."
Electric Auto-Lite Co., Die Casting Div., Woodstock, Ill.
Grammes & Sons, Inc., L. F., 371 Union St., Allentown, Pa.
Hamlin Metal Products Co., Exchange at Water Sts., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Western Metal Specialty Co., 1213 N. 62nd St., Milwaukee 13, Wis.
Western Motors, 4834 Cermak Rd., Cicero, Ill.

PLIERS, Brake Spring, See Tools, Brake Spring Removing and Replacing

PLIERS, TERMINAL, See Tools, Battery Service

PLOWS, Snow, See Snow Plows

PLYWOOD, See Panels, Plywood

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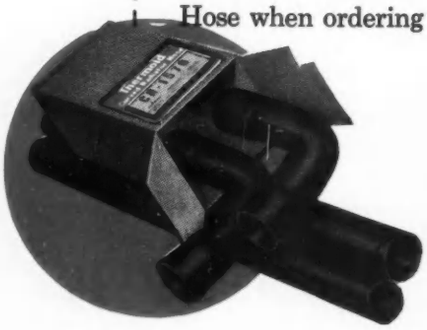
. . . or get it curved. It's top-quality Thermoid Radiator Hose—made to original equipment specifications and proven to be better wherever the going's toughest. Because it resists deterioration due to heat, anti-freeze and chemicals, Thermoid Radiator Hose lasts far longer. Use it on *all* your equipment. Safeguard against restricted circulation caused by premature hose collapse. To reduce maintenance costs, specify Thermoid Radiator Hose when ordering from your regular supplier.



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Brake Linings • Fan Belts • Radiator Hose • Hydraulic Brake Parts and Fluid • Clutch Facings • Car Mats • Thermoid Precision Process Equipment.

Thermoid Company • Trenton, N. J.

POINTS (Ignition)

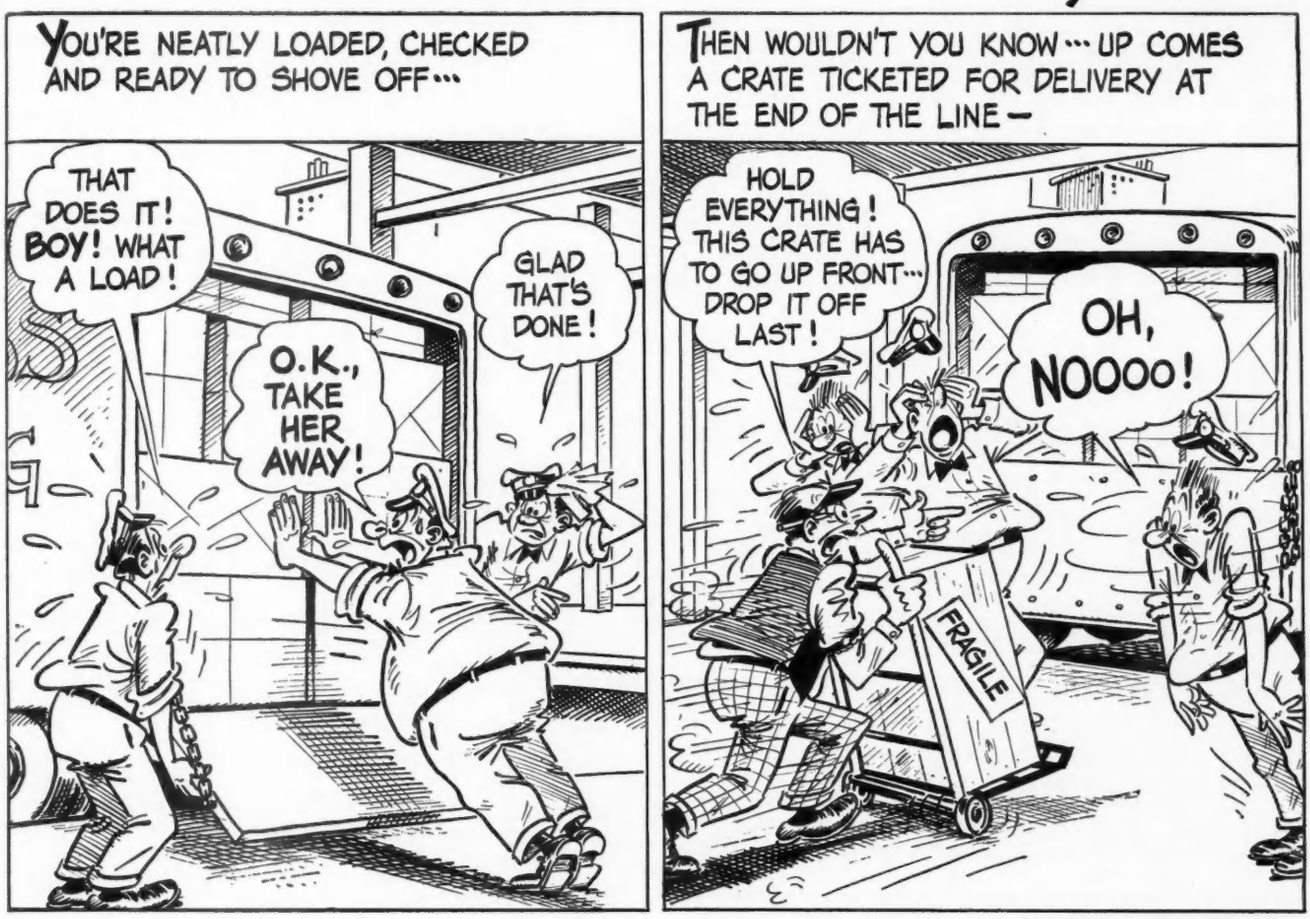
American Motor Products Co., Fond du Lac, Wis. "Ampco."
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J. "APW."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Cleveland Tungsten Mfg. Co., 10200 Meech Ave., Cleveland, Ohio. "Cleve-Tung."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Graphite Metallizing Corp., 1030 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
Guaranteed Parts Co., Seneca Falls, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Manhattan Coil Corp., 1486 Lakewood Ave., S. E. Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 21st St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Speer Carbon Co., St. Marys, Pa.
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y. "Superpoint."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Super Go," "Wells."
Wilson Co., H. A., 105 Chestnut St., Newark 5, N. J. "Wilco."

POLISH, Body

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Atomix, Inc., Box 486, Wilmington 99, Del. "Atolak."
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa. "Cleanola."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Metalglas."
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Plastic Gloss."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."

"THEY NEVER MISS ..!"

by Gum



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Save time—cut costs with Hi-level

Look how you benefit . . .

★ **70% LONGER AVERAGE LIFE**—in tests conducted according to S.A.E. Life Cycle Standards.

★ **LESS SERVICING**—reduces time and bother of servicing and checking batteries.

★ **GREATER LIQUID RESERVE**—needs water only ⅓ as often as batteries without the Hi-Level feature.

★ **FIBRE-GLASS MATS**—help prevent "shedding"—one of the major causes of battery failure.

Find how Hi-Level can help end battery grief, cut costs for you. See your Prest-O-Lite distributor for complete information or write to

PREST-O-LITE BATTERY COMPANY, INC.
Toledo 1 Ohio

Investigate the Prest-o-lite *hi-level* Battery

prest·o·lite
hi-level battery

. . . needs water only ⅓ as often !*

*As batteries without the Hi-Level features.

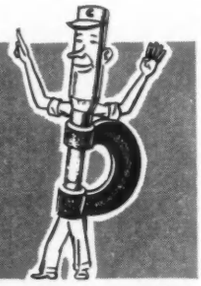
POLISH, Body—cont.

Clinton Spray Wax Co., 1020 E. Land Pl., Milwaukee 2, Wis. (Wax.)
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich. "Rapid-Glow."
Do-Mor, Inc., 1121 Fourth Ave., Rockford, Ill.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del. "Duco," "No. 7."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa. (Crystalline wax.)
Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.
Glidden Co., 11001 Madison Ave., Cleveland, Ohio. "Glid-N."
Glisten Co., 13 Barnard St., Hillsdale, Mich.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Venus," "Lusterize." (Wax.)
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Johnson & Son, Inc., S. C., Racine, Wis.
Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "Albionite," "Car-Glo."
Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich. "Ken-Nite," "Ken-Glo."
Lacquerwax Co., 31 Spruce St., Hartford 3, Conn. (Wax.)
Lee Corp., 997 Jefferson Ave., Brooklyn 21, N. Y.
Liquid Veneer Corp., Urban & Kehr St., Buffalo 11, N. Y.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio. "Lazy Man's," "Lustro."
McAleer Mfg. Co., Box 149, Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Mirror Bright Polish Co., 910 E. Colorado St., Pasadena, Calif. "Meguiar's."
Mirrorlike Mfg. Co., 76th St. & Queens Blvd., Long Island City 1, N. Y. "DeLux."
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Plasticlear Products, Inc., 29 Mills St., Malden, Mass.
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio. "Sprazit."
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Open.."
Silver-Glo Co., 185 S. Main St., Seymour, Conn.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz," "Simoniz Kleener."
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilgloss."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Karglo."
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Min-Mum," "Turco Revel."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
Warehouse Distributors Co., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Color-Blend," "Por-Cel-Seal."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J. "Wonder-Brite."
Zecol, Inc., 155 E. Kilbourn Ave., Milwaukee 1, Wis.

POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44 St., N. Y. 17, N. Y.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Dremel Mfg. Co., 2420 18 St., Racine, Wis.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Jones Motrola Corp., 432 Fairfield Ave., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Polishers."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.

ONE MICROMETER TO DO THE WORK OF FOUR!



NEW CENTRAL RANGE MICROMETER No. 400RM
Measures 0 to 4" by thousandths

Now Central brings you this Range Micrometer No. 400RM . . . a measuring tool that's catching on fast with motor mechanics — and no wonder! It has a full 0 to 4" range by thousandths — ideal for most measurements in the shop. It's easy to change extensions . . . to change from one range to another. And best of all, the Central Range Micrometer has a unique feature — the anvil is crowned to eliminate gagging when taking measurements. No. 400RM is another big reason why Central Micrometers are the largest selling micrometers throughout the automotive field. See your jobber or write for catalog.

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474 WELLINGTON AVE., CRANSTON 10, R. I.

CENTRAL Certified Accuracy MICROMETERS ★

FOR HALF A CENTURY SPECIALISTS IN FINE MICROMETERS.

POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing

POWER TAKE-OFFS, See Take-Offs, Power

PRESSES, Arbor

Acromark Co., 9 Morrell St., Elizabeth 4, N. J.
Bee-Line Co., Box 569, Davenport, Iowa.
Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Dake Engine Co., 639 Monroe St., Grand Haven, Mich.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Electric and hydraulic.)
Famco Machine Co., 1320 18th St., Racine, Wis.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)
Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Pneumatic.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)
Logansport Machine Co., Center Ave., Logansport, Ind. "Logan." (Pneumatic and hydraulic.)
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Ruger Equipment Co., 615 W. Fourth St., Uhrichsville, Ohio; P. O. Box 3821, Portland 8, Ore. (Hydraulic.)
Threadwell Tap & Die Co., Greenfield, Mass. "Little Champ."
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "T-J."
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Watson-Stillman Co., Aldene Rd., Roselle, N. J. (Hydraulic.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Starter generator repair.)
Wright Hoist Div. of American Chain & Cable Co., York, Pa.

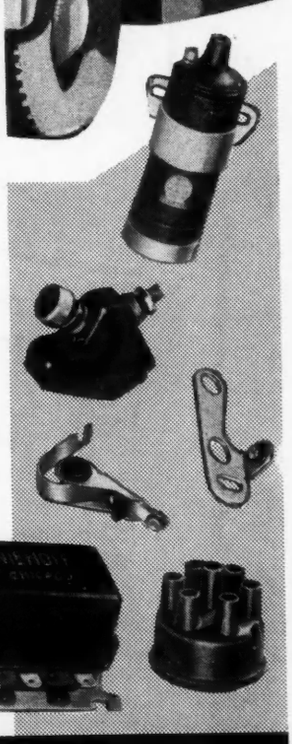
PRESSES, Hydraulic

Air Hydraulics, Inc., 120 W. Middle St., Chelsea, Mich.
American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.
American Steel Foundries, Elemo Engrg. Div., 1155 Tennessee Ave., Cincinnati 29, Ohio.
Anderson Bros. Mfg. Co., 1907 Kiswaukee St., Rockford, Ill.
Baldwin Locomotive Works, Philadelphia 42, Pa.
Bethlehem Steel Co., Bethlehem, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bliss Co., E. W., 1420 Hastings St., Toledo 7, Ohio.
Chambersburg Engrg. Co., Derbyshire St., Chambersburg, Pa.
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.
Dake Engine Co., 630 Monroe St., Grand Haven, Mich. (Electrically, air and hand operated.)
Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Farquhar Co., A. B., 142 N. Duke St., York, Pa.
Farrel-Birmingham Co., 97 Main St., Ansonia, Conn.
Federal Machine & Welder Co., Overland Ave., Warren, Ohio. "Warco."
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
French Oil Mill Machinery Co., Piqua, Ohio.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.
Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill.
Hy-Air Products Co., 1705 Probert Rd., Jackson, Mich. "Hapco."
Hydraulic Machinery, Inc., 1901 Dime Bank Bldg., Detroit 26, Mich.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M."
Hydropress, Inc., 570 Lexington Ave., New York 22, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lake Erie Engineering Corp., 890 Woodward Ave., Buffalo 17, N. Y.
Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass. "Lapointe Hudson."
Lempco Products, Inc., Bedford, Ohio. "Elect-Draulic."
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Mesta Machine Co., Box 1466, Pittsburgh, Pa.
Morgan Engineering Co., Alliance, Ohio.
Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill.
Oilgear Co., 1303a W. Bruce St., Milwaukee 4, Wis.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
Watson-Stillman Co., Roselle, N. J.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
West Tire Setter Co., 399 Exchange St., Rochester 8, N. Y.

Get the MOST Out of Your Fleet This Winter . . .

NIEHOFF

WARRANTEED IGNITION



Now is the time to take the worry out of cold weather starting, develop more efficient motor operation and safeguard against road failures by installing heavy duty Niehoff Warranteed Ignition in every truck in your fleet.

All Niehoff Ignition Parts are precision-engineered, easy to install and individually packaged for protection and quick identification.

A national network of Niehoff Jobbers is waiting to supply you. *Call Your Jobber Today!*

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WEATHERHEAD OFFERS...

NEW FLEXIBLE HOSE and REUSABLE ENDS

ALL STEEL

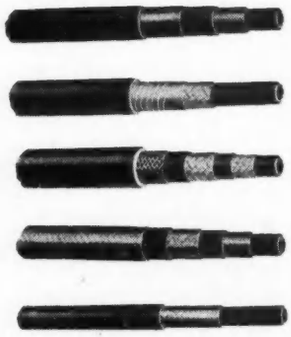
EASY TO ASSEMBLE

MINIMUM FLOW RESTRICTION

POSITIVE LEAKPROOK CONNECTION

WEATHERHEAD MANUFACTURES A COMPLETE LINE OF HOSE ASSEMBLIES

Heavy duty flexible hose for use with Weatherhead reusable steel ends for automotive applications includes low, medium, medium high and high pressure hose. Five types of hose plus two hose ends service all standard installations.



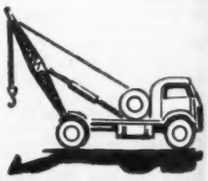
H-17—Double fibre braid, synthetic cover

H-108—Single wire braid, synthetic cover

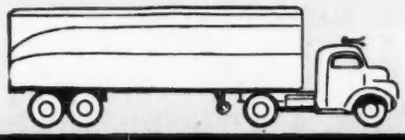
H-25—Double wire braid, synthetic cover

H-69—Single wire braid, cotton cover

H-9—Single fibre braid, synthetic cover



The Mark of Quality



FOR HEAVY DUTY GAS, OIL, AIR AND HYDRAULIC LINES

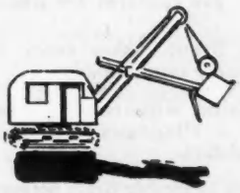
For Fast Economical Replacement on Trucks, Buses, and Farm Equipment

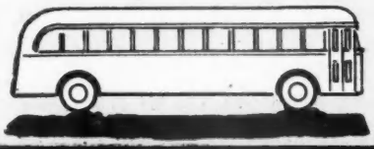
No matter how rugged the motorized equipment, it's no tougher than its high pressure hose lines and hose ends. The NEW Weatherhead hose and hose couplings are rugged and sturdy—designed to replace damaged gasoline, oil, air and hydraulic lines on trucks, buses, tractors, tank trucks, farm machinery, power tools and other heavy duty units.

Full time service for all equipment and low cost inventory is assured by use of these inexpensive replacement parts. A minimum stock of hose ends and random length coils of hose are stored until needed to make a quick, positive and leak-proof connection of any desired length. They're economical because Weatherhead Reusable Hose Ends last through repeated hose changes—keep equipment operating, save costly lay-ups.

See your jobber for complete details or write direct to our Cleveland office for your copy of the NEW J-1503 Catalog describing the various types of Weatherhead Heavy Duty Flexible Hose and Reusable All Steel Hose Ends.

The Weatherhead Company also manufactures the well-known "Q A" (Quick Attachable) Hose Ends for passenger cars and light trucks.





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Weatherhead

THE WEATHERHEAD COMPANY, CLEVELAND 8, OHIO

PLANTS: CLEVELAND, O. • ANGOLA, IND. • COLUMBIA CITY, IND. • ST. THOMAS, ONTARIO, CAN.

PRESSES, Hydraulic—cont.

Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.
Wilson, K. R., 216 Main St., Buffalo 3, N. Y. "K.R.W."
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."
Wood Co., R. D., Room 1072, Public Ledger Bldg., Philadelphia 5, Pa.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.

PRESSES, Straightening (Wheel)

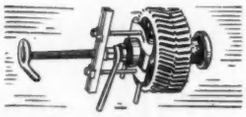
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.

PROPANE, See Fuels, Engine

PRUSSIAN BLUE, See Blue, Mechanics

PULLERS, Bearing, Gear and Wheel

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamagoo 13F, Mich.
All-Power Mfg. Co., 202 Roosevelt Ave., Montelullo, Calif.
Armstrong-Bray & Co., 5320 Northwest Highway, Chicago, Ill. "Steelgrip."
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Lok Jaw."
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Wheel.)
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. (Wheel.)
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power." (Hydraulic.)
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
C. & G. Wheel Puller Co., Scio, N. Y.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)
Cam Tool Co., 288 21st St., Oakland, Calif.
Cornwell Quality Tools Co., Mogadore, Ohio.
Crane Puller Co., 11 River St., West Newton, Mass.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C. S."
Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Greb Co., 181 Canton St., Stoughton, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Wheel.)
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.



Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn., "OTC."
Proto Tools, 2209 Santa Fe Ave., Los Angeles 51, Cal.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rinck McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)
Simmons Mfg. Co., Ashland, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio. "Springfield," "Mayo."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex-Jenny." (Hydraulic.)
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Vlchek Tool Co., 3000 E. 87th St., Cleveland, Ohio.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill. (Gear.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

PULLERS, Cylinder Head

Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich. (For Ford cars.)

PULLERS, Cylinder Sleeve

Atmars Tool Co., 2411 Chestnut St., Oakland, Calif.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Portable pneumatic.)
Fort Dodge Machine & Supply Co., 529 First Ave., S. Fort Dodge, Iowa. "Precision."

Imperial GLASS FRONT Brass Fitting Stock

This stock of tube fittings and brass pipe fittings offers you features far ahead of the ordinary cabinet stock.

1. Glass Front makes every fitting extremely easy to find.
2. Contains wide-range, balanced stock — eliminates costly pick-ups and delays.
3. Builds profitable brass fitting sales.
4. Every item has its own compartment with raising lid.
5. 80 compartments—each one is fully labeled with picture of fitting, catalog number and size.
6. Simplifies checking and ordering stock.
7. A real addition to shop appearance; sturdy steel construction.
8. *And there's NO CHARGE for the cabinet.*

GET IT FROM YOUR JOBBER

No. 450-F Imperial Glass Front Stock complete with 396 Brass Fittings, 10 Shut-off and Drain Cocks. Dealer's Cost.....$60.50

(Resale value of parts $103.00)

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THE IMPERIAL BRASS MFG. COMPANY, 1209 W. Harrison St., Chicago 7, Ill.

IMPERIAL Brass Fittings • Flexible Lines • Shut-Off Valves • Service Aids • Strainers • Barrel Faucets • Tube Working Tools

Take a Profitable Tip from America's Foremost Fleets to

CUT "DOWN TIME" with Transportation's Finest Piston Rings!

FLEETS #115, #347

EASTERN, MID-WESTERN OPERATORS JUMP MILEAGE BETWEEN ENGINE OVERHAULS

"We installed Koppers Piston Rings in 12 different engines for the purpose of determining their effectiveness. We find that the engine mileage between overhauls has increased from approximately 45,000 miles to 75,000 miles when using Koppers Piston Rings."

WISCONSIN FLEET OPERATOR

"By using Koppers Piston Rings, we get an improvement in oil consumption, a 25 per cent increase in mileage between overhauls and cylinder wear has been reduced to about one-sixth of normal."

MARYLAND PUBLIC UTILITIES COMPANY

KOPPERS K-SPUN

STOPS PISTON RING BREAKAGE

because:

1. *It is twice as strong as conventional piston ring materials*
2. *It has 50% more spring*
3. *It has four times greater resistance to combustion shock*
4. *It has much greater resistance to wear*

KOPPERS POROUS CHROME*

REDUCES CYLINDER WEAR

because: (1) The porosity of the chrome causes almost instantaneous seating to make a perfect seal that eliminates blow-by. (2) Chrome finish resists the penetration of abrasive material, (which normally wears cylinders by entering the engine and imbedding itself in the surface of ordinary rings.) *Result:* Porous chrome reduces cylinder and ring wear 1/3 to 1/4 of normal!

Moreover, Porous chrome greatly reduces oil costs by maintaining minimum oil consumption for longer period of time. And it increases gasoline mileage by reducing friction, adding power, which maintains economy longer.

REMEMBER: *Koppers puts chrome where it belongs—on the top compression ring—the ring that gets the least lubrication . . . the greatest heat . . . the most wear!*

* VAN DER HORST PROCESS

AMERICAN HAMMERED

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PULLERS, Cylinder Sleeve—cont.

Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Hein Werner Corp., 1200 National Ave., Waukesha, Wis. (Hydraulic.)
Marvel Tool & Machine Co., 1096 N. River Rd., St. Clair, Mich. (Hydraulic-operated.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."

PUMPS, Brake (Vacuum)

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Hetzel Bros., 1972 S. Los Angeles St., Los Angeles, Calif.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan."

PUMPS, Drum or Barrel Type

Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

PUMPS, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric; mechanical, also combustion fuel feed and vacuum.)
Airtex Automotive Div., Chefford-Master Mfg. Co., Fairfield, Ill. (Also combination fuel and vacuum.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Autopulse Corp., 218 E. Dowland St., Ludington, Mich. (Electric.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "BMC."
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)
Chefford Master Mfg. Co., Fairfield, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
Hygrade Products Div., Standard Motor Products, Inc., 33-35 35th St., Long Island City 1, N. Y.

Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Jordan Electrical Mfg. Co., 222 N. 2nd St., Minneapolis, Minn.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. (Also combination fuel and vacuum.)
Murray Auto Specialty Co., Airprene Div., 1228 S. Olive St., Los Angeles 15, Calif.
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill. (Electric, vacuum.)
Vepco Fuel Pump Sales, 17304 Lahser Rd., Detroit 19, Mich.

PUMPS, Gasoline (Filling Station)

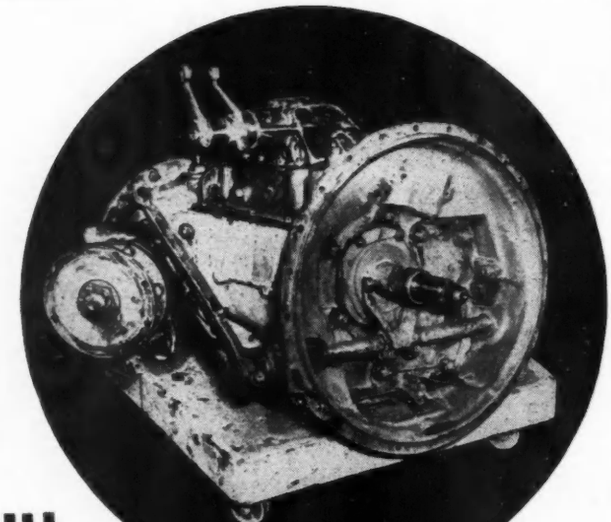
American Pumps, Inc., 1035 Woodrow St., Cincinnati 4, Ohio. "American Beauty."
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Correct Mfg. Co., Box 190, Rochester, Pa. "Correct-O-Meter."
Dayton Pump & Mfg. Co., 500 N. Webster St., Dayton, Ohio. "Rapidayton."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Calco-Meter," "Gilbarco."
National Store Specialty Co., Bareville, Pa. "Pennsylvania."
Phillips Pump & Tank Div., Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Service Station Equipment Co., Muskegon, Mich.
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Tokheim Oil Tank & Pump Co., 1602 Wabash Ave., Fort Wayne, Ind.
Wayne Pump Co., Tecumseh & Cochran Sts., Ft. Wayne 4, Ind.
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa. "Gasboy."
Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

PUMPS, Hydraulic

Jarp Corp., Wausau, Wis. "PumPac."
Melling Tool Co., Box 37, Jackson, Mich.
Vickers, Inc., 1418 Oakman Blvd., Detroit 22, Mich.

PUMPS, Water

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Atlas Brass Foundry Co., 32 W. Deshler Ave., Columbus, Ohio. "Abco." "Everseal."
Automatic Steel Products, Inc., 1201 Camden Ave. S. W., Canton 6, Ohio. "Linmar."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16 Ill. "Exact."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati 9, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 6, Mich.
Browne & Sharp Mfg. Co., 235 Promenade St., Providence, R. I.
Chefford Master Mfg. Co., Fairfield, Ill. "Master."
Clawson & Bals, Inc. "Ring True." See Bohn Aluminum & Brass Co.
Elgin Machine Works, 412 N. State St., Elgin, Ill. (For Ford, Chevrolet and Plymouth cars.)
Grapho Products, Inc., P. O. Box 300, Lawrence, Ind.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.



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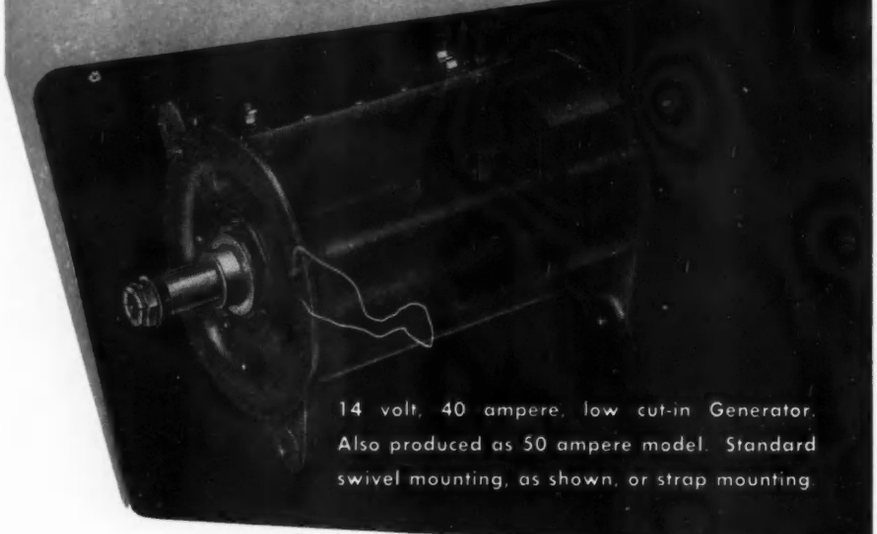

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PUMPS, Water—cont.

L C Products, 2232 Alvord St., Indianapolis 7, Ind.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Marathon Fary & Machine Co., 1212 West St., Wausau, Mich.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Pick Mfg. Co., West Bend, Wis.
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Toledo Perma-Seal."
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. "WMP."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

RACKS, Stock, Tire and Tool (Metal)

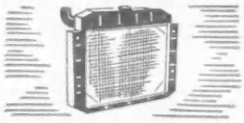
Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown." (Tire.)
Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Brown Engineering Co., 126 N. Third St., Reading, Pa. (Bar stock.)
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Heller Castor Co., 1219 W. Fort St., Detroit 26, Mich.
Kirspel Industries, Inc., 300 Main St., Orange, N. J.
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Lee Rollrax." (Portable, tire.)
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Sta., Boston, Mass. "Load Master."
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Manufacturing Equip. & Engrg. Co., 553 Waverly St., Framingham, Mass. "Meeco."
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. "MHS."
Metal Industries, Inc., P. O. Box 945, Youngstown, Ohio. "Jambar."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn. (Bar stock.)
Revolator Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)
Star Mfg. Co., Box 618, Kansas City, Mo. "Starbilt."

RADIATOR COVERS, See Covers, Radiator Grille

RADIATOR GRILLES, See Grilles, Radiator

RADIATOR SHUTTERS, See Shutters, Radiator

RADIATORS, Engine Cooling



Auto Radiator Mfg Co., 2901 Indiana Ave., Chicago, Ill. "Eureka."
Blackstone Corp., 1088 Allen St., Jamestown, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Excel," "Marvel."
Fedders-Quigan Corp. Co., 57 Tonawanda St., Buffalo 7, N. Y.
G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.

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RADIATORS, Engine-Cooling—cont.

General Radiator Co., Sturtevant, Wis.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Kramer Auto Radiator Corp., 210 W. 65th St., New York 23, N. Y.
Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.
Perfex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

RADIOS, Two-Way

General Electric Co., Syracuse, N. Y.
Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia, Pa.
Radio Corp. of America, Mobile Communications Section, Engineering Products Dept., Camden, N. J.
Raytheon Mfg. Co., 60 E. 42nd St., New York 17, N. Y.

RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.
Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md. (Custom built.)
Delco Radio Div., General Motors Corp., Kokomo, Ind.
Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia 34, Pa.

RAILS, Rub (Pressed Steel)

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.

RAMPS, Truck Loading

Christensen Co., Wm., Sherman St. & P Railway, York, Pa. (Adjustable.)
Rowe Methods, Inc., 1743 E. 25th St., Cleveland 14, Ohio. "Adjust-A-Dock," "Adjust-A-Truck." (Electric hydraulic.)
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind. (Hydraulic.)

RAMS, Hydraulic

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Ausco."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
G.A.C. Mfg. Co., 119 E. Fourth St., Ashland, Ohio. "Perfection Power Plus."
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Power Plus."
Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.
Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Hydra-Pak," "Snap-On."
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 26, Mich. "Step-Draulic."
Sunset Hydraulic Co., 16825 S. Broadway, Gardeau, Calif. "Amazon," "Amazon Hydra-Pull," "Hydra-Pull Mite."

REAMERS, Cylinder Ridge

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

REAMERS, Main Bearing and Connecting Rod

Keystone Reamer & Tool Co., Millersburg, Pa.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

REAMERS, Power Drive

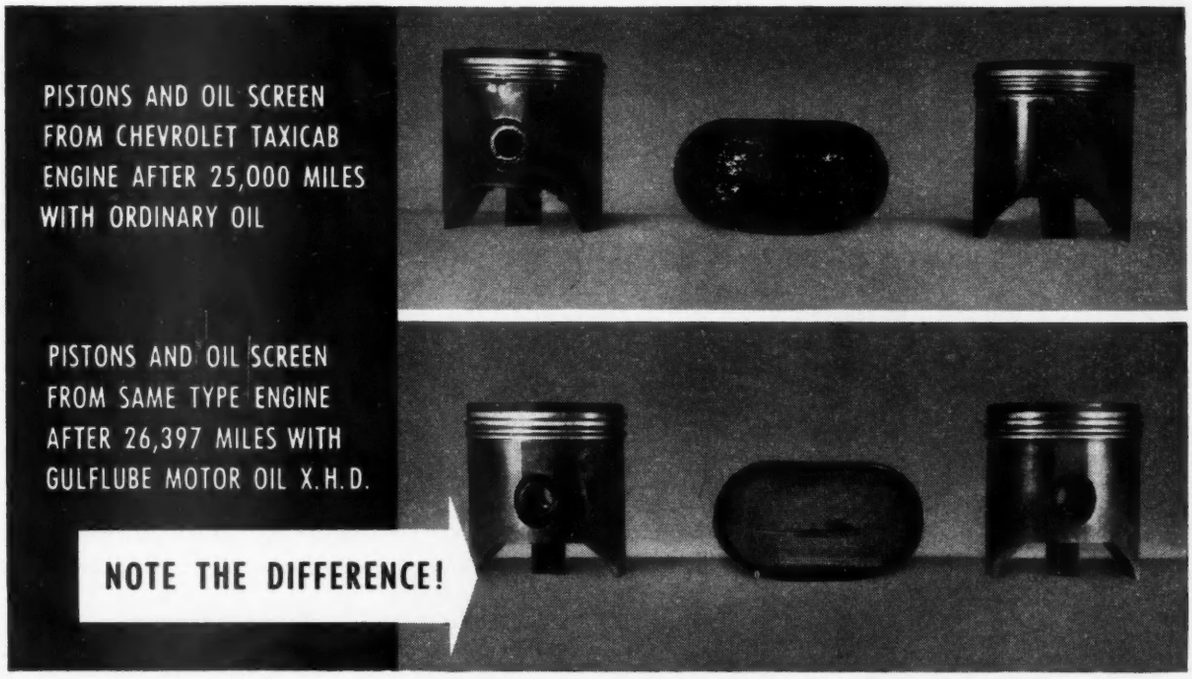
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."

Announcing:

Gulflube Motor Oil X.H.D.

—reduces low temperature sludge, wear and rust in stop and go service.

—delivers outstanding results in extra heavy duty service.



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Originally developed for extremely heavy duty operating conditions, Gulflube Motor Oil X.H.D. has proven to be just as effective in stop-and-go light duty service. Low temperature sludge has been a serious problem for years to operators of fleets in this type of service, such as taxicab, dairy, and bakery fleets. Gulflube Motor Oil X.H.D. greatly reduces the accumulation of this objectionable sludge, prevents rust formation, and prolongs engine life.

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REAMERS, Power Drive—cont.

Lempco Products, Inc, 5490 Dunham Rd., Bedford, Ohio.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Norman Co., 3640 Main St., Springfield 7, Mass. "Reamo."

REAMERS (Solid Expansion and Adjustable)

Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Arrow Tool & Reamer Co., 418 Livernois Ave., Detroit 9, Mich. (Solid.)
Barber-Colman Co., 1300 Rock St., Rockford, Ill. (Solid and adjustable.)
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H. "Critchley," "C & T."
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Expansion.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Paradox," "Quick-Set," "Peerless," "Spirex."
Cogsdill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich.
Davis Boring Tool Div. of Larkin Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis.
Detroit Reamer & Tool Co., 2830 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T." (Solid.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Expansion.)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "G T D." (Solid and expansion.)
Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. "B-Ver." (Expansion and adjustable.)
Kelly Reamer Co., 3775 Ridge Rd., Cleveland, Ohio. (Adjustable.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
McCrosky Tool Corp., S. Main St., Meadville, Pa. "Super." (Adjustable.)
Madison Mfg. Co., 1713 7th St., Muskegon, Mich. (Adjustable.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
O. K. Tool Co., 33 Hull St., Shelton, Conn. (Adjustable.)
Park Metalware Co., Thorn Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "Xcelite."
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Pratt & Whitney Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. (Expansion.)
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Staples Tool Co., 2851 Massachusetts Ave., Cincinnati 25, Ohio. (Carboloy tipped, solid and expansion.)
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Tungsten-Carbide Tool Co., 2661 Joy Road, Detroit 6, Mich.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Waukesha Tool Corp., Waukesha, Wis. (Adjustable.)
Wendt-Sonis Co., Hannibal, Mo. "W-S." (Solid carbide tipped.)
Wesson Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis. (Adjustable.)
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Hercules." (Solid and expansion.)
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing

RECLAIMERS, Crankcase Oil

Burt Mfg. Co., 44 E. South St., Akron 11, O.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y "Hilco."
Kidde & Co., Walter, Youngstown Miller Div., 675 Main St., Belleville, N. J. "Youngstown Miller."
Sparkler Mfg. Co., Lake St., Mundelein, Ill.

RECORDERS, Vehicle Movement

Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill.
Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J. "Pe Ka Travel Log."
Markley Corp., Plainville, Conn.
Sangamo Electric Co., Springfield, Ill. "Sangamo Tachograph." (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.)

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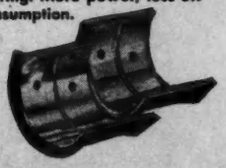
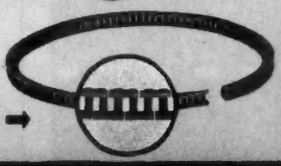
VALVE GUIDES, Chrome-nickel alloy, burnished holes—require no reaming.

ENGINE BEARINGS. Thin-wall, steel backed type. "Jewel-finish"; longer wear. Easily installed.





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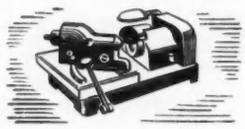
Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio. "Servis."
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "Ustclock," "Ustocograph," "Ustcometers."
Wagner Electric Corp., 6476 Plymouth Ave., St. Louis 14, Mo. "Tachograph."

REFACERS, Valve (Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Ia. "Sioux."
Beard Tool Co., L. O., Andrew and Mill Sts., Lancaster, Pa.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Independent Pneumatic Tool Co., Aurora, Ill. "Thor."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D. "Knock Out."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
S & D Engineering Co., 1709 Standard Ave., Glendale 1, Calif.
Skilsaw Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Valve."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.



Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

REFLECTIVE MATERIALS

By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn. "Scotchlite."
Prismo Safety Corp., Huntingdon, Pa.

REFLECTORS, Safety

American Automatic Devices Co., Throop, Harrishon & Congress Sts., Chicago 7, Ill. "King Bee Hy-Power," "King Bee Foto-Ray."
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.
Anthes Force Oiler Co., Ft. Madison, Iowa.
Arrow Safety Device Co., Mt. Holly, N. J. "Arrowlite."
Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)
Cole Automotive Products Co., 2644 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (For trucks.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Tiger Ey."
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Belleville, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. "Stimsonite."
Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Red, green or amber reflecting glass.)
Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan. "Miro-Flare."
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill. "Cragg."
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich.
U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill "Eagle Brand."
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

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Air Induction Corp., 122 W. 30th St., New York 1, N. Y.
American Mfg. Co., Montgomery, Ala. "Arctic Traveler."
Baker Ice Machine Co., 1522 Evans St., Omaha, Neb. "Bimco."
Bowser, Inc., Terryville, Conn. "Bowser Kold Hold."
Carrier Corp., 300 S. Keddis St., Syracuse 1, N. Y.
Coldmobile Co., 1633 Bagley Ave., Detroit 16, Mich.

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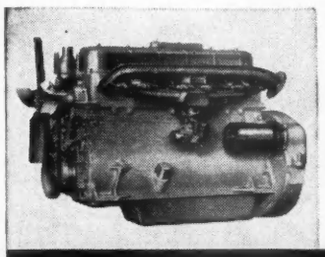
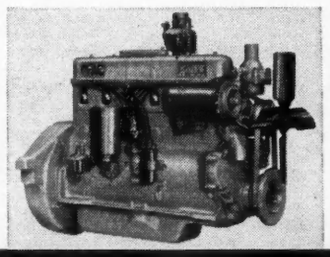
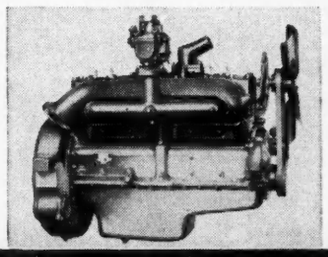


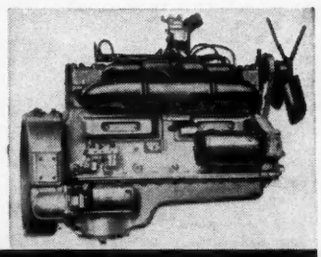
265 cu. in. Gasoline



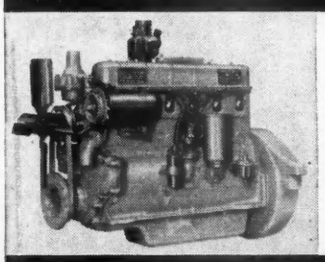
320 cu. in. Gasoline



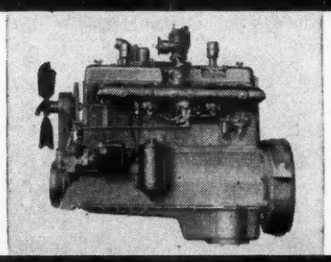
320 cu. in. Gasoline



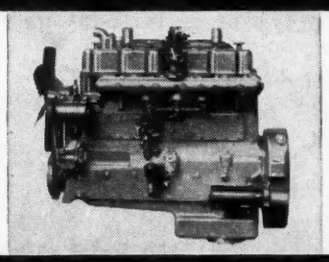
404 cu. in. Gasoline



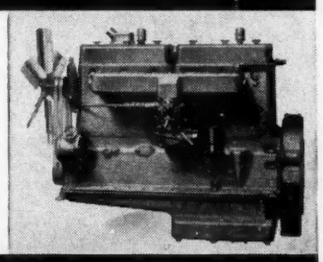
426 cu. in. Gasoline 451 cu. in.



525 cu. in. Gasoline 554 cu. in.



779 cu. in. Gasoline 817 cu. in.



1197 cu. in. Butane

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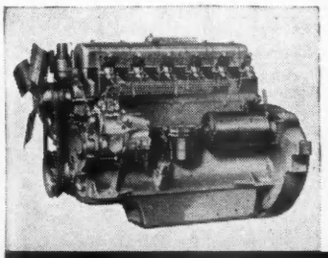
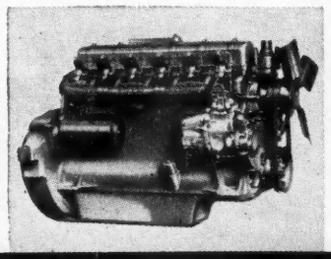
Send for DESCRIPTIVE BULLETINS on any or all of these engines or consult Waukesha Engineers on your power needs.

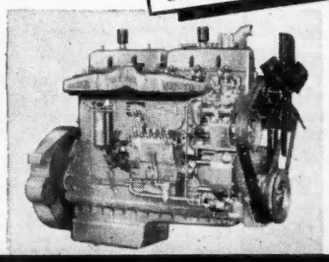
Max. HP. and RPM	Cylinders	Bore and Stroke, In.	Displ. Cu. In.
GASOLINE ENGINES			
66 @ 2400	6	3¾ x 4	265
122 @ 3000	6	4⅛ x 4	320
104 @ 3000	6	4 x 4¼	320
128 @ 2800	6	4¼ x 4¾	404
141 @ 2800	6	4¼ x 5	426
150 @ 2800	6	4⅜ x 5	451
172 @ 2600	6	4½ x 5½	525
188 @ 2600	6	4⅝ x 5½	554
224 @ 2100	6	5¼ x 6	779
221 @ 2000	6	5⅜ x 6	817
*300 @ 1800	6	6¼ x 6½	1197
*Butane engine			
DIESEL ENGINES			
88 @ 2400	6	3¾ x 4	265
119 @ 2800	6	4 x 5	377
136 @ 2800	6	4¼ x 5	426
173 @ 1900	6	5¼ x 6	779
240 @ 1800	6	6¼ x 6½	1197



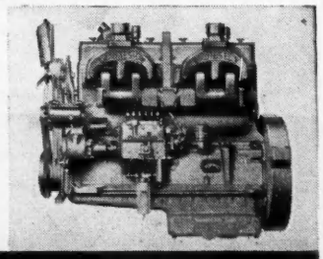
265 cu. in. Diesel



377 cu. in. Diesel 426 cu. in.



779 cu. in. Diesel



1197 cu. in. Diesel

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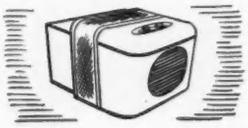

Dole Refrigerating Co., 5920 N. Pulaski Rd., Chicago, Ill. (Vacuum cold plate evaporators.)
Dorsey Trailers, Inc., Elba, Ala. "Dorsey Serv-Cold." (Gasoline motor driven.)
Dromgold & Glenn, 332 S. Michigan Ave., Chicago, Ill. "D. & G." (Produce; also combination water and dry ice.)
Dyna-Kold Corp., 3221 20th St., San Francisco 10, Calif.
Foster-Built Burkers, Inc., 757 W. Polk St., Chicago 7, Ill. (Dry ice.)
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Trailer.)
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio.
Industrial Manufacturing & Engineering Co., 3845 N. Ravenswood Ave., Chicago 13, Ill. "Coldjet," "BloKold," "Zone Control."
Kold Hold Mfg. Co., 620 E. Hazel St., Lansing 4, Mich.
Kold-Truk, Inc., St. Louis, Mo.
Lehigh Mfg. Co., Lancaster, Pa.
Marvel Industries, Inc., 14600 E. Seven Mile Road, Detroit 5, Mich. (Trailer.)
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. "Frigid-Fin."
Tecumseh Products Co., Tecumseh, Mich. "Chieftain."
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y. "Theurer Icefin."
Transport Cooler, Inc., 33300 Thomas St., Farmington, Mich.
U. S. Thermo Control Co., 44 S. 12th St., Minneapolis 4, Minn. "Thermo-King."

REGROOVERS, Tire

International Equipment Co., 9 Carlton St., Buffalo, N. Y.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. (Electrically heated.)
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis. (Electrically heated.)
Peco Mfg. Co., 20 W. Berkley St., Philadelphia 33, Pa.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Electrically heated.)
Thompson & Sons, O. E., 400 River St., Ypsilanti, Mich. "Champion." (Electrically heated.)
Van Tool, Inc., 139 N. 22nd St., Philadelphia 3, Pa. (Electrically heated.)

REGULATORS, Current and Voltage

American Bosch Corp., Springfield 7, Mich.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3. Mo.
Auto-Lite Battery Corp., Owen-Dyneto Div., 1920 Park St., Syracuse, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Auto-Lite Co., Instrument and Gage Div., La Crosse, Wis.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Grant Storage Battery Co., 226 N. 2nd St., Minneapolis, Minn.
Guaranteed Parts Co., Seneca Falls, N. Y.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Lesce-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 53rd St., New York 11, N. Y. "Nimco."

→ 5

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DETROIT, Mich.....H. & H. Wheel Service, Inc.
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HARRISBURG, Pa.....Standard Wheel & Rim Co.
HARRISONBURG, Va., Harrisonburg Wheel & Parts, Inc.
HARTFORD, Conn.....Connecticut Wheel & Rim Co.
HOUSTON, Texas.....Southwest Wheel & Equipment Co.
INDIANAPOLIS, Ind.....Indiana Wheel & Rim Co.
JACKSONVILLE, Fla., Southeast Wheel & Rim Co.
KANSAS CITY, Mo.....Borbein, Young & Company
KNOXVILLE, Tenn.....Harris Automotive Service, Inc.
LOS ANGELES, Motor Rim & Wheel Service of Calif.
LOUISVILLE, Ky.....Auto Wheel & Rim Service
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MILWAUKEE, Wisc., Stone Manufacturing Company
MINNEAPOLIS, Minn.....Pioneer Rim & Wheel Co.
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MONTREAL, Can., General Automobile Equip., Ltd.
NASHVILLE, Tenn., Beller Wheel, Brake & Supply Co.
NEWARK, N. J.....Wheels Incorporated
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PHILADELPHIA, Pa., Thomas Wheel & Rim Co., Inc.
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PORTLAND, Oregon.....Auto Wheel Service
PORTLAND, Oregon.....Six Robblees, Incorporated
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ST. LOUIS, Mo.....Borbein, Young & Company
SALISBURY, Md.....R. W. Norris & Sons
SALT LAKE CITY, Utah, Henderson Wheel, Rim Serv.
SAN ANTONIO, Texas, Southwest Wheel & Equip. Co.
SAN FRANCISCO, Motor Rim & Wheel Serv. of Calif.
SEATTLE, Wash.....Six Robblees, Incorporated
SOUTH BEND, Ind., Wire & Disc Wheel Sales Co.
SOUTH HILLS, Va., South Hills Wheel & Parts, Inc.
SPOKANE, Wash., Bearing & Rim Supply Company
SPRINGFIELD, Ill., Illinois Wheel & Brake Company
SPRINGFIELD, Mo.....Borbein, Young & Company
SYRACUSE, N. Y.....Colbourn Wheel & Rim Company
TACOMA, Wash.....Six Robblees, Incorporated
TOLEDO, Ohio.....Wheel & Rim Sales Company
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TORONTO, Canada, Wheel & Rim Co. of Canada, Ltd.
VANCOUVER, B. C., Canada.....Wheel & Equip., Ltd.
WICHITA, Kansas.....Borbein, Young & Company
WINCHESTER, Va.....R. W. Norris & Sons
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NO. 2300 AND NO. 2350

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TUBULAR BAR TYPE

Fasteners

FOR TRUCK AND TRAILER BODIES

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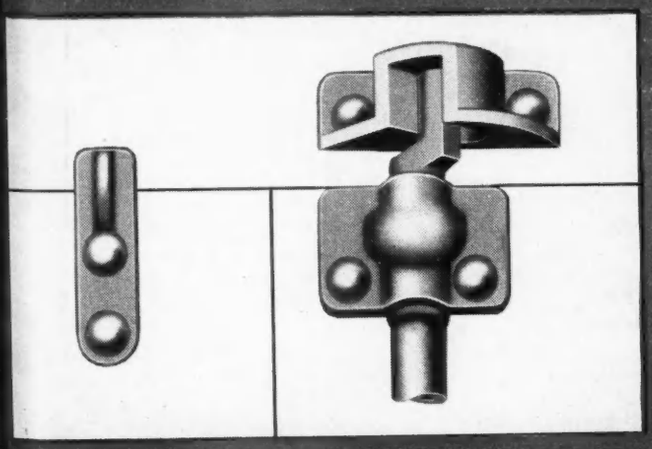
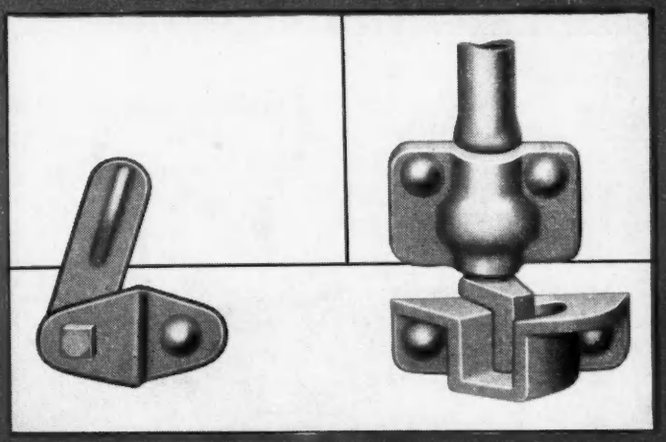


Greater security is assured by providing a deeper pocket in the upper keeper and a longer cam on the upper lock bar end.



The longer bottom lock bar end, plus greater depth of lower keeper, provides a more secure locking feature and prevents disengagement of the cam from the keeper pocket.

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Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

REGULATORS, Humidity (Paint Shop)

Bristol Co., Waterbury 91, Conn.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Minneapolis-Honeywell Regulator Co., Brown Instruments Div., Wayne & Roberts Ave., Philadelphia 44, Pa.
Powers Regulator Co., 2733 Greenview Ave., Chicago, Ill.
Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
Tagliabue Instrument Div., Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."

Have YOU an Overtime Problem?

Is Overtime getting to be a habit with your truck?

Well, does the truck ever *STAND IDLE* somewhere during working hours? "How can I possibly know *that,*" you may say, "when it is out on its route? I can't keep an eye on it all day!"

The little *Servis Recorder* is the answer to your problem. Attached up in the cab, its chart tells you daily every move the truck makes—all stops and delays, day and night—and overtime too.

Now, most overtime is caused by the truck *standing idle* at times during the day. Look at the chart shown above. This truck was standing somewhere, from 2 to 4 in the afternoon. No wonder it didn't get in until nearly 7!

Of course, it may not have been the driver's fault—not all delays can be laid to him. But you want to KNOW; expensive Overtime is just another burden on your high trucking costs.

Write for the Servis Recorder story today.

THE SERVICE RECORDER COMPANY
1375 Euclid Avenue • Cleveland 15, Ohio

The Servis Recorder
Shows Busy and Idle Time...All Day

RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Co., Div. Kingston Products Co., Railroad St., Bronson, Mich. (Horn.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. (Horn.)
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Toledo 1, Ohio. (Light.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Freedco Products, Inc, 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Kem Mfg. Co., 20 Wagarow Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
New York Coil Co., Mont Clare, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Light.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Light.)

REMOVERS, OIL AND GREASE. See Solvents, Oil, Carbon and Grease Removing

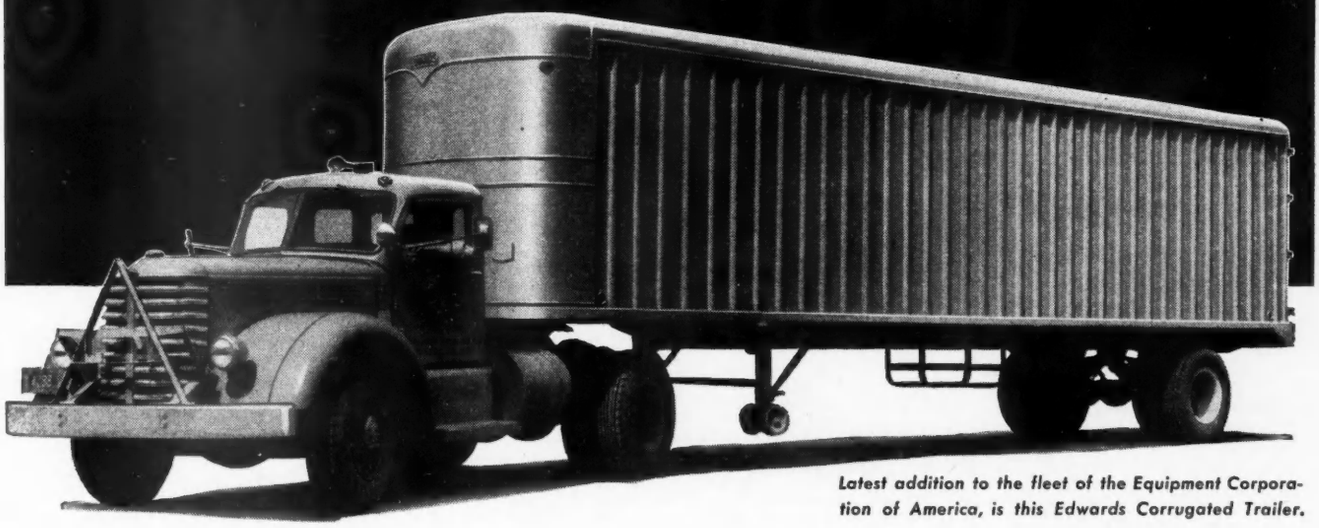
REMOVERS, Paint, Enamel and Varnish

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Solvent No. 3."
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill.
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio.
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa.
Berry Bros., Inc., 211 Leib St., Detroit 7, Mich.
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass. "Modene."
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kaystrip." (Oil base paint.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Curran Corp, Lawrence, Mass.
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Kut-Kote."
Delta Chemical Co., 407 Madison Ave., Memphis 1, Tenn.
Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Triad."
Ditzler Color Div. of Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Electro-Chemicals Dept., Wilmington 98, Del.
Dural Automotive Div., Berry Bros, Inc., 211 Leib St., Detroit 7, Mich.
Finch Ltd., Leon, 728 E. 59th St., Los Angeles, Calif. "Enamolift," "Leolift."
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "70 Stripper." (Hot.)
Heath & Milligan Mfg. Co., 1833 S. Normal Ave., Chicago, Ill. "Dependable."
Helper Paint Removing Service, Inc., Cleveland, Ohio.
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro."
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.

for Profitable Haulage ··

CHOOSE ··

EDWARDS TRAILERS



Latest addition to the fleet of the Equipment Corporation of America, is this Edwards Corrugated Trailer.

● "I'VE had very good luck with Edwards Trailers. They've been profitable jobs for us, keeping overhead down and giving us economical haulage," says Homer Fitterling of South Bend, president of both the Equipment Corporation of America and Fitterling Transportation Co., Inc.

Edwards trailers are soundly engineered for the loads they haul, and have proved themselves in fleet after fleet. Every pound of deadweight is cut that will not sacrifice sturdiness. Maximum use is made of hi-tensile, light-weight steel.

The latest Edwards Corrugated model has several features that add to economical performance, paying operation. Sturdy corrugated sides are welded to top and bottom side rails. There is a new and improved landing gear. Springing is free-end, advanced type. You'll find an Edwards pays off per ton mile in the long run. Send coupon now.

EDWARDS

TRAILER AND BODY COMPANY

DIVISION EDWARDS IRON WORKS, INC.

EDWARDS TRAILER AND BODY CO.
Dept. C-11, South Bend 23, Indiana.
Rush data on ( ) Edwards Trailers
( ) Edwards Dealer Franchise

Name_____

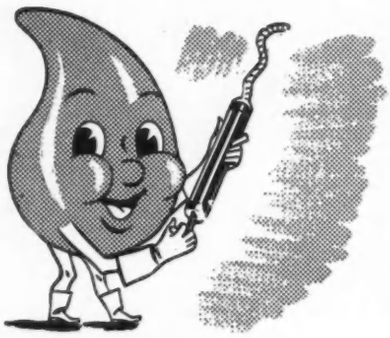
Address_____

DEALERS: A LIMITED NUMBER OF EDWARDS FRANCHISES ARE AVAILABLE IN RESTRICTED TERRITORIES

UNIVERSITY OF MICHIGAN LIBRARIES

QUESTION:

What grease is ideal for water pumps and will not fail in WHEEL BEARINGS?



ANSWER:

Shell Retinax "A" Grease

5 BIG SAVINGS FOR FLEET OWNERS:

1. **Lower consumption.** Users report up to 50% savings in the amount of grease required per "grease job."
2. **Minimum inventory.** Shell Retinax "A" replaces 4 separate greases.
3. **No costly errors** are possible. Operators cannot apply wrong grease.
4. **Quicker servicing** is achieved because there is no time wasted changing guns.
5. **Minimum equipment** required since multiple guns and dispensers are eliminated.

WILL NOT FAIL IN WHEEL BEARINGS . . . STAYS LONGER IN CHASSIS FITTINGS . . . RESISTS WASHING . . . IDEAL FOR WATER-PUMP SERVICE . . . ADDED PROTECTION FOR UNIVERSAL JOINTS.

SHELL

SHELL OIL COMPANY
50 West 50th St., New York 20, N. Y., or
100 Bush St., San Francisco 6, California

Please send me the full story of Shell Retinax "A" Grease for fleet lubrication.

Name_____

Address_____

State_____

REMOVERS, Paint, Enamel and Varnish —cont.

Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Mirac."
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Superwet." (Paint and varnish.)
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "Remuvol."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Expedite."
Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 23."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Five-Star."
Solrun Services Inc., 49 N. Second St., Philadelphia 6, Pa. "Solv," "Vaposolv," "Nasolv."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Klensa."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Stripper," "Turco Paint-Gon."
V. E. P. Co., 400 E. Lafayette Ave., Detroit 26, Mich. "Veco."
Wilson-Imperial Co., 115 Chestnut St., Newark, N. J. "Imperial." (Water rinsable.)

RESURFACERS, Floor

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio.
Stonehard Co., 1306 Spring Garden St., Philadelphia 23, Pa. "Stonhard Resurfacer," "Stonplastic," "Stonpach."

RETAINERS, Oil and Grease

Acadia Div, Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. "Acadiaseal." (Synthetic rubber.) "Arcadia Resistofelt."
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Atlas Asbestos Co., North Wales, Pa. (Water pump.)
Automatic Rubber Co., 8601 Epworth Blvd., Detroit 4, Mich.
Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)
Brummer Mfg. Corp., 1324 McKinley St., Chicago Heights, Ill.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass. "Grafton."
Copeland-Gibson Products Corp., 7451 W. Eight Mile Rd., Detroit, Mich. "C-G."
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gits Bros. Mfg. Co., 1846 S. Kilbourn Ave., Chicago, Ill.
Graphite Metallizing Corp., 1080 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (For Ford and Chevrolet cars.)
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich. "Milpaco."
National Motor Bearing Co., Redwood City, Calif. (Seals.)
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Plastic & Rubber Products, Inc., 3110 Oakridge Dr., Dayton 7, Ohio. (O-rings.)
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio. (Synthetic rubber.)
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Simplex Piston Ring Mfg. Co., 3830 Kelley Ave., Cleveland 14, Ohio.

Budd Wheel Distributors provide the same service described in this advertisement

[redacted]

AKRON—Motor Rim Manufacturers Co.
ALBANY—Wheels, Incorporated
ALBUQUERQUE—Wheels & Brakes, Inc.
ATLANTA—Harris Automotive Service, Inc.
BALTIMORE—R. W. Norris & Sons, Inc.
BIRMINGHAM—Wheel, Rim and Parts Co.
BOSTON—New England Wheel & Rim Co.
BUFFALO—Frey, the Wheelman, Inc.
CHARLOTTE—Carolina Rim & Wheel Co.
CHATTANOOGA—Harris Automotive Service, Inc.
CHICAGO—Stone Wheel, Inc.
CINCINNATI—Rim & Wheel Service, Inc.
CLEVELAND—Motor Rim Manufacturers Co.
COLUMBUS—Hayes Wheel & Spring Service
DALLAS—Southwest Wheel, Inc.
DAVENPORT—Stone Wheel, Inc.
DAYTON—Rim & Wheel Service, Inc.
DENVER—Quinn & McGill Motor Supply Co.
DES MOINES—Des Moines Wheel & Rim Co.
DETROIT—H. & H. Wheel Service, Inc.
EVANSVILLE—Auto Wheel & Rim Service Co., Inc.
FARGO—Wheel Service Company
FORT WAYNE—Wheel & Rim Sales Co.
GRAND RAPIDS—Rim & Wheel Service Co.
HARRISBURG—Standard Wheel & Rim Co.
HARTFORD—Connecticut Wheel & Rim Co.
HOUSTON—Southwest Wheel & Equipment
INDIANAPOLIS—Indiana Wheel & Rim Co.
JACKSONVILLE—Southeast Wheel & Rim Co.
KANSAS CITY—Borbein, Young & Co.
KNOXVILLE—Harris Automotive Service, Inc.
LOS ANGELES—Wheel Industries, Inc.
LOUISVILLE—Auto Wheel & Rim Service
MEMPHIS—Beller Wheel, Brake & Supply Co.
MILWAUKEE—Stone Manufacturing Co.
MOLINE—Mutual Wheel Co.
NASHVILLE—Beller Wheel, Brake & Supply Co.
NEWARK—Automotive Safety Inc.
NEW HAVEN—Connecticut Wheel & Rim Co.
NEW ORLEANS—Southern Wheel & Rim Co.
NEW YORK—Wheels, Incorporated
OKLAHOMA CITY—Southwest Wheel, Inc.
OMAHA—Morgan Wheel & Equipment Co., Inc.
PEORIA—Peoria Wheel & Rim Co.
PHILADELPHIA—Thomas Wheel & Rim Company
PITTSBURGH—Wheel & Rim Sales Co.
PORTLAND—Six Robblees', Inc.
PROVIDENCE—New England Wheel & Rim Co.
RALEIGH—Carolina Rim & Wheel Co.
RICHMOND—Dixie Wheel Co., Inc.
ROCHESTER—Frey, the Wheelman, Inc.
SALT LAKE CITY—Henderson Rim & Wheel Service
SAN ANTONIO—Southwest Wheel & Equipment
SAN FRANCISCO—Wheel Industries, Inc.
SEATTLE—Six Robblees', Inc.
SOUTH BEND—Wire & Disc Wheel Sales & Service
SPOKANE—Bearing & Rim Supply Co.
SPRINGFIELD, ILL.—Illinois Wheel & Rim Co.
SPRINGFIELD, MO.—Borbein, Young & Co.
ST. LOUIS—Borbein, Young & Co.
ST. PAUL—Wheel Service Co.
SYRACUSE—Colbourn Wheel & Rim Service, Inc.
TACOMA—Six Robblees', Inc.
TOLEDO—Wheel & Rim Sales Co.
WICHITA—Borbein, Young & Co.

EXPORT
CLEVELAND—C. O. Brandes, Inc.

CANADA
CALGARY—Fisk Tire Service Ltd.
EDMONTON—Alberta Wheel Distributors, Ltd.
MONTREAL—General Automobile Equipment Ltd.
TORONTO—Wheel & Rim Co. of Canada, Ltd.
VANCOUVER—Wheels & Equipment, Ltd.
WINNIPEG—Ft. Garry Tire Service Ltd.

"A VERY IMPORTANT ITEM!"

Sometimes truck operators forget that in addition to their utility Budd wheels are good looking, too . . . can greatly enhance the appearance of a fleet! In many businesses, this becomes *a very important item.*

The Colonial Baking Company of Springfield, Mo., faced the problem of bringing their fleet of delivery trucks closer to the ground . . . for appearances sake, and to speed bread deliveries.

Ted Doll of Borbein, Young and Company, Budd wheel distributor in Kansas and Missouri, suggested changing present wheels on this fleet to 17 inch Budd hubs, drums and wheels. Following this installation, Mr. Allen Lawrence, manager of the bakery, became mighty positive about his preference for Budd wheels. Here's what he says:

"Budd wheels give us positive alignment. No chance of getting a tire on wrong.

"Our drivers are not mechanics. Tire changes now become a simple matter for them to handle. Budd wheels have eliminated lots of road calls for us.

"Budd wheels add greatly to the appearance of our trucks, which is *a very important item* to us!"

Appearances are not everything . . . but they do mean a lot to many fleet operators . . . in addition to the many other advantages provided through use of Budd wheels. Just one of many reasons why operators change-over to Budd wheels. If you have a problem that the right wheels can solve, call on the Budd wheel distributor nearest you. His name is listed in the adjoining column.

The Budd Company, Detroit 14.

GENUINE

Budd

COLD TAPERED DISC

WHEEL

UNIVERSITY OF MICHIGAN LIBRARIES

RETAINERS, Oil and Grease—Cont.

Steel or Bronze Piston Ring Corp., 548 S. Meridian St., Indianapolis, Ind.
Trautner Mfg. Co., 876 University Ave., St. Paul 4, Minn. (Rear axle, for Ford, Chevrolet, Plymouth, Dodge, DeSoto and Chrysler cars.)
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victoprene."
Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. "Resistofelt." (Felt.)

RIMS, Wheel

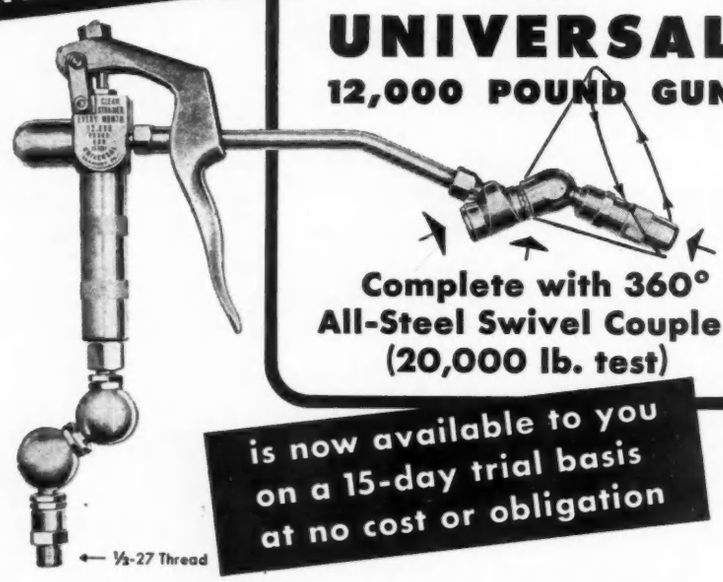
Firestone Steel Products Co., 1200 Firestone Parkway, Akron 10, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.

RINGS, Piston

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Burd Graf-Flox."
Coil Piston Ring Co. of America, 4005 Washington Blvd., St. Louis 8, Mo.

FREE TRIAL OFFER

The
UNIVERSAL
12,000 POUND GUN



Complete with 360°
All-Steel Swivel Coupler
(20,000 lb. test)

is now available to you
on a 15-day trial basis
at no cost or obligation

Now you can prove to yourself how easily the UNIVERSAL gun will open up frozen grease fittings. Use this gun in your maintenance shop for 15 days —without paying one cent down—and if you are not perfectly satisfied, you may return it with no obligation on your part.

The UNIVERSAL is the only control handle with pressure boosting action. The first squeeze of the handle gives you your regular line pressure; additional squeezes build up pressure to 12,000 lbs.—enough to open up the most stubborn fitting. *Permits you to grease trucks while they are fully loaded.* IT IS UNCONDITIONALLY GUARANTEED FOR 1 YEAR.

Ask your Jobber today about our free trial offer. If he does not have the UNIVERSAL gun, mail the coupon below.

DEALER PRICE $19.54

JOBBERS
Write for details on our consignment offer

Date_____

☐ Send Model 12031 UNIVERSAL 12,000 lb. gun for free trial. I will return after 15 days if not fully satisfied.
☐ Send descriptive literature

Name_____
Address_____
City_____ State_____
Name of Jobber_____

UNIVERSAL LUBRICATING SYSTEMS, INC. 734 Allegheny Avenue Oakmont, Pennsylvania

A Complete Line of Automotive Lubricating Tools and Accessories

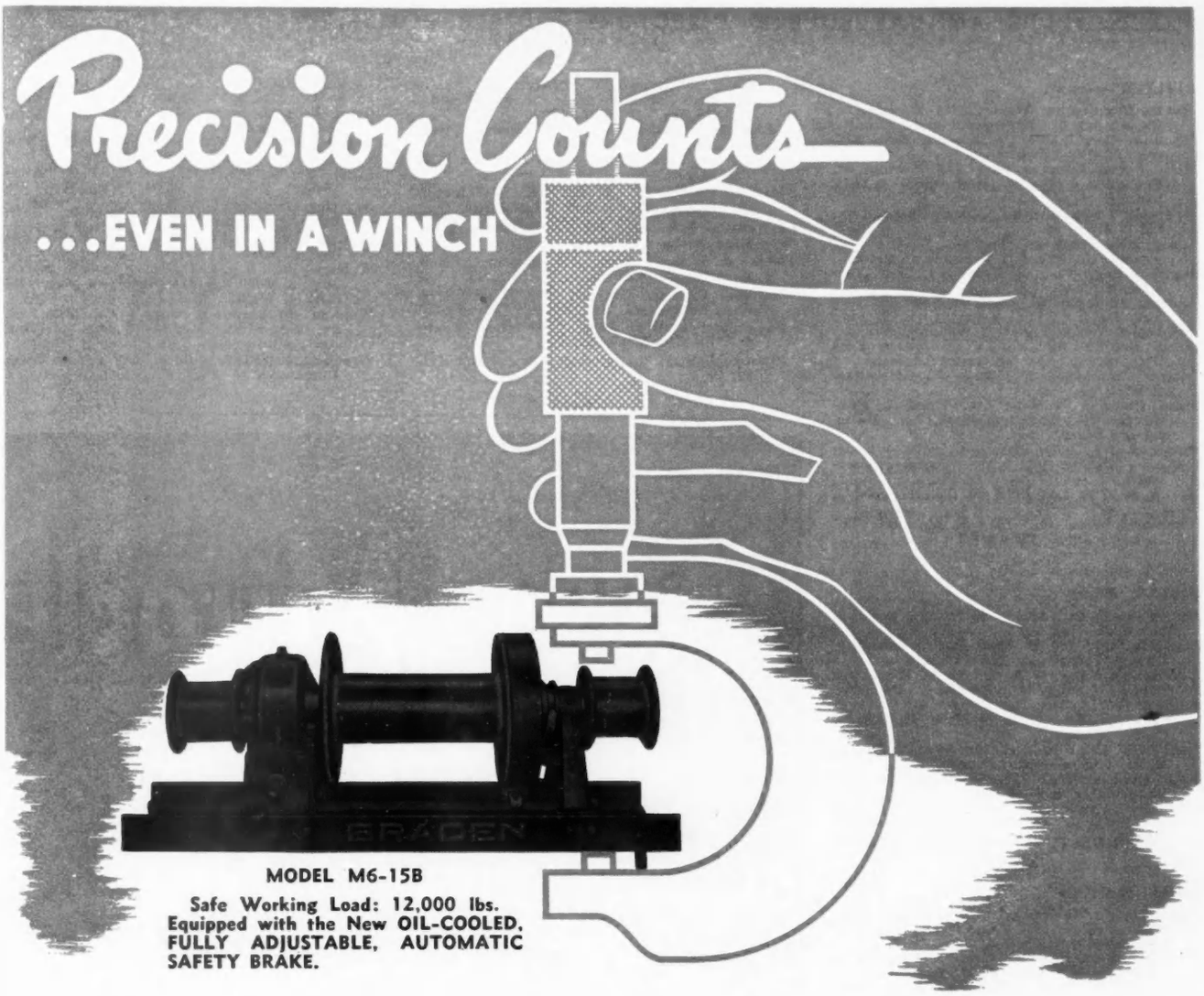
Cords Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 15, Calif.
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.
Gill Piston Ring Co., 6900 Cottage Grove Ave., Chicago 37, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hangliter Mfg. Co., 983 S. Raymond Ave., Pasadena, Calif. "Hanco."
Hastings Mfg. Co, 375 E Mill St, Hastings, Mich. "Steel-Vent."
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kopper Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 3, Md. "American Hammered."
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hico."
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo. "Leak Proof."
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Muskegon Piston Ring Co., Sixth & Alpha Sts., Muskegon, Mich.
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 15, Calif.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Richmond Ring Co., Souderton, Pa.
Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.

Royal Piston Ring Co., Bath, N. Y. "Ascot," "Everyday," "Ever Step," "Maidrite," "Royal."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Simplex Piston Ring Mfg. Co., 3830 Kelley Ave., Cleveland 14, Ohio.
Steel or Bronze Piston Ring Corp., 546 S. Meridian St., Indianapolis 4, Ind. "Non-Breakable." (Steel or bronze.)
Superior Piston Ring Co., 6425 Epworth Bldv., Detroit 10, Mich. "Mor-Power," "Spring-Tite," "Steel-Master," "Sealz-It." (Sole distributors, Winkenwelder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."
Valve-Tite Piston Ring Co., Sheperd St., Toledo 1, Ohio. "Valv-Tite." "Fit-Well," "RX," "Universal," "Layr-Bilt," "Royal Crown."
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Wausau," "Savoil," "XX Oil Savr," "Super Portoil," "XX Super Portoil."
Wel-Ever Piston Ring Co., 1701 Speilbusch Ave., Toledo 1, Ohio. "Bevl Chanl," "Flexo," "Super Flexo," "Speed," "Dran-Bac," "Multi-Comp," "Aroloy," "Welco," "Dual Compression," "Twin-Rail," "Aro Cast," "E. C. Slot," "Fast Flow," "Free Drain," "Flexo-Steel," "High Test Comp," "Improved Aroloy," "BC Flexo," "Welco-X."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

RINGS, Piston Expanders, See Expanders, Piston, Ring

RIVETERS

Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Boyer." (Portable pneumatic.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)
Engineering & Research Corp., Riverdale, Md. (Mail address: P. O. Box 209, Hyattsville, Md.) "Erco."
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Grant Mfg. & Machine Co., 90 Silliman Ave., Bridgeport 5, Conn.



Winches aren't made with the precision workmanship of a fine watch. That's to be expected, as tolerances of one ten-thousandth of an inch aren't necessary to make a winch perform perfectly. However, the more care given to the machining of moving parts, the better a winch will perform, year in and year out.

Every part of a BRADEN Winch is scientifically engineered to exact specifications. BRADEN engineers know, through years of experience, the closest tolerances, the correct machining of parts, and the proper metals to use in manufacturing a winch that will perform to perfection under the most grueling conditions. Yes, precision manufacturing counts in a BRADEN Winch. Performance on the job proves that the extra effort taken by BRADEN in manufacturing a precision engineered winch, is worth the effort in customer satisfaction.

BUY BRADEN—They Are Safer

BRADEN WINCH COMPANY
Post Office Box 1709

BRADEN Winches
IN SERVICE AROUND THE WORLD

Tulsa 1, Oklahoma

UNIVERSITY OF MICHIGAN LIBRARIES

RIVETERS—cont.

Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic)
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Hydraulic.)
High Speed Hammer Co., 313 Norton St., Rochester 5, N. Y. (High speed pedestal hammer type.)
Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Portable pneumatic.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Lempco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
National Rivet & Mfg. Co., Waupun, Wis.
Norin Engineering Co., 355 N. Union Park Ct., Chicago, Ill. (Hydro-mechanical.)
Oilgear Co., 1303a W. Bruce St., Milwaukee 4, Wis.
Penn Rivet & Machine Co., Third & Huntingdon Sts., Philadelphia 33, Pa. (Pedestal and bench types.)
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich. (Portable pneumatic.)
Taylor & Fenn Co., 54 Arch St., Hartford 1, Conn.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "Rivitor."

RIVETS, Blind

Cherry Rivet Co., 231 Winston St., Los Angeles 13, Calif.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio. "Lok-Skru," "Lok-Rivet."
du Pont de Nemours & Co., E. I., Explosives Dept., Wilmington 98, Del. (Explosive type.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Rivnut."
Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)
South Chester Corp., 1418 South Penn Square, Philadelphia 2, Pa. "Southco."

RODS, CONNECTING, See Connecting Rods

RODS, Welding

Acme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif. "Acmeloy," "Hardaloy," "Stainaloy," "Superloy."
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Alloy Rods Co., W. Market St., York, Pa. "Acaloy," "Bronze-Arc," "Nickel-Arc," "Tool-Arc," "Wear-Arc," "Weld-Arc."
All-State Welding Alloys Co., 273 Ferris Ave., White Plains, N. Y. "All-State," "Keenweld."
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa.
American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda," "Tobin Bronze."
American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio.
Ampco Metal, Inc., 1747 S. 38th St., Milwaukee 15, Wis. "Ampco-Trode."
Atlantic Steel Co., 16th & Mecaslin St., Atlanta, Ga.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
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Cleveland Tungsten Mfg. Co., 10200 Meech Ave., Cleveland, Ohio.
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.
Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Neware."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Haynes Stellite Co., Kokomo, Ind.
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K-W Ignition Corp., 1767 E. 27th St., Cleveland, Ohio. (Tungsten.)
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill. "Kop-R-Arc."
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland, Ohio. "Stable-Arc," "Stainweld A," "Lightweld," "Manganweld," "Aluminweld," "Fleetweld," "Hardweld," "Ferroweld," "Toolweld," "Abrasoweld," "Chromweld," "Aerisweld," "Wearweld," "Softweld," "Faceweld," "Surfaceweld," "Shield-Arc," "Planeweld."
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Page Steel & Wire Div. of American Chain & Cable Co., Monessen, Pa.
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Superior Oxy-Acetylene Machine Co., 1102 E. High St., Hamilton, Ohio.
Wall Colmonoy Corp., 19345 John R St., Detroit 3, Mich.
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Welding Equipment & Supply Co., 223 Leib St., Detroit 7, Mich. "Eureka." (Tool steel; alloy.)
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

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Allied Research Products, Inc., 4004 E. Monument St., Baltimore 5, Md. "Iridite."
Alox Corp., 70 Pine St., New York 5, N. Y.
American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa. "Deoxidine," "Deoxylyte," "Peroline," "Spray-Granodine," "Thermoil-Granodine," "Duridine" for ferrous metal.
American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu."
Angier Corp., 50 Fountain St., Framingham, Mass. "Angier VPI."
Automotive Rubber Co., 8601 Epworth Blvd., Detroit 4, Mich. "Arco."
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa.
Bradford Oil Co., Boston Rd., Palmer, Mass. "Cedaroleum." (Preventing.)
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Bruce Products Corp., Howell, Mich. "Non-Rust."
Buchanan Chemical Co. C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass. "Tasgon."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Nutbuster."
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Chicago, Hydraulic Oil Co., 11618 S. Front St., Chicago 28, Ill. "Pennytroyl."
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 25, N. Y. "Anti-Corrode."
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
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Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo. "Red-Skin."
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Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Mystery Oil."
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Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Noxoff." (Cylinder heads, tail pipes, mufflers, etc.)
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Freedom-Valvoline Oil Co., Third Ave. & Sixth St., Freedom, Pa.
Globe Imperial Corp., 2025 Kishawaukee St., Rockford, Ill. "Plastic-Seal."
Grapho Products, Inc., P. O. Box 300, Lawrence, Ind. "Pen-A-Trate."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Cosmoline," "Rus-Veto." (Preventing.)
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "So Klean."
Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Protektol."
Kano Laboratories, 75 E. Wacker Drive, Chicago 1, Ill. "Kano Microil."
Kelly Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand," "Kelcote."
Kerkling & Co., 8319 Alport Ave., Whittier, Calif. "K & W."
Liquid Veneer Corp., Urban & Kehr Sts., Buffalo 11, N. Y. "Rust-Kill."
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark. "Nokorode."
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Never Rust Mfg. Co., 616 Standish Rd., Teaneck, N. J. "Ne-Ver-Rust."
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Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul Dexoide."
Rusticide Products Co., 3125 Perkins Ave., Cleveland, Ohio. "Rust-I-Cide."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. "Ensis."
Skybryte Co., 3125 Perkins Ave., Cleveland 14, Ohio. "Rust-Tox." (Preventing.)
Socony-Vacuum Corp., 26 Broadway, New York 4, N. Y. "Mobilcote," "Mobil Rustproofer."
Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Solusolv."
Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y. "Amalie."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rustrem."
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stanorust."
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Wayne Chemical Products Co., Copeland Ave. & M. C. R. R., Detroit, Mich. "Protex."

Whiting Leather & Belting Co., 9 Murray St., New York 7, N. Y. "Whiting Rustvoid," "Whiting Rust Cutter."

Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill.

Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Tri-Flux."

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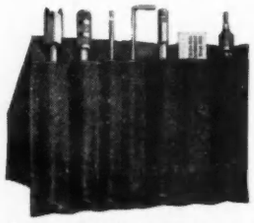

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Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'Way Anti-Rust."

Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."

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Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.

Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa.

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Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny."

Hood Refining Co., 21 N. Hamilton Ave., Greensburg, Pa.

Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.

Kerkling & Co., 8319 Allport Ave., Whittier, Calif. "K & W."

Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.

Magnus Chemical Co., 185 South Ave., Garwood, N. J.

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Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Rustrite."

National Aluminate Corp., 6216 W. 66th Place, Chicago 38, Ill. "Nalco," "PH7."

National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Rustone."

Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."

Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.

Permo Products Co., 1629 Platte St., Denver 2, Colo.

Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."

Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "Anti Rust."

Rust Master Chemical Corp., 50 Creighton St., Boston, Mass.

Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Rusgo."

Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.

Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Hydrotone."

Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rad-Glo."

Sun Oil Co., 1608 Walnut St., Philadelphia 8, Pa. "Sunoco."

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Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turoc Radox."

U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."

Universal Chemists, 107 Northampton St., Boston, Mass. "Rust-Chek."

V-O Mfg. Co., 13245 Sherman Way, Hollywood, Calif.

Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite."

Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill.

Watts-Wagner Co., 123 W. 64th St., New York 23, N. Y. "Rust-Ex."

Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.

"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y.

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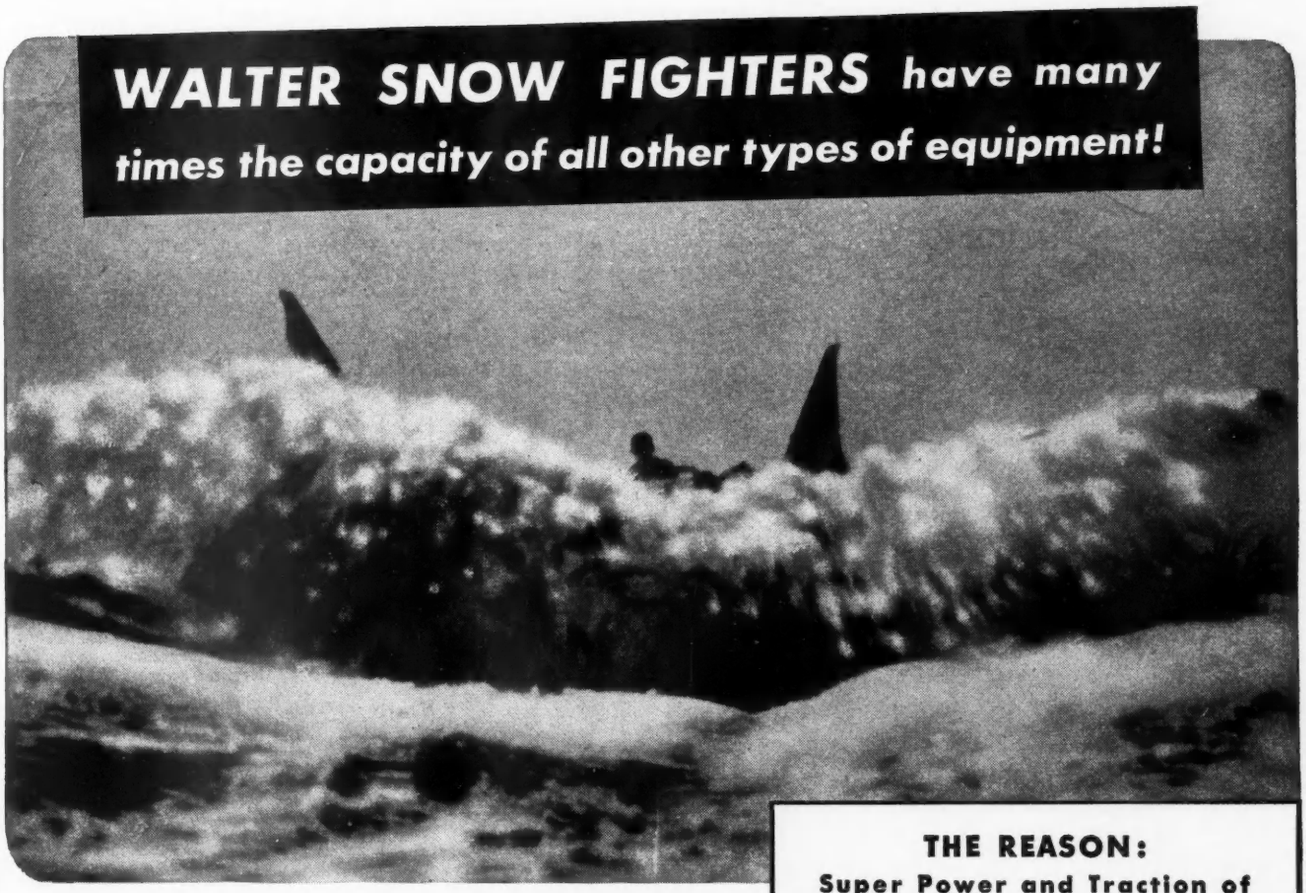

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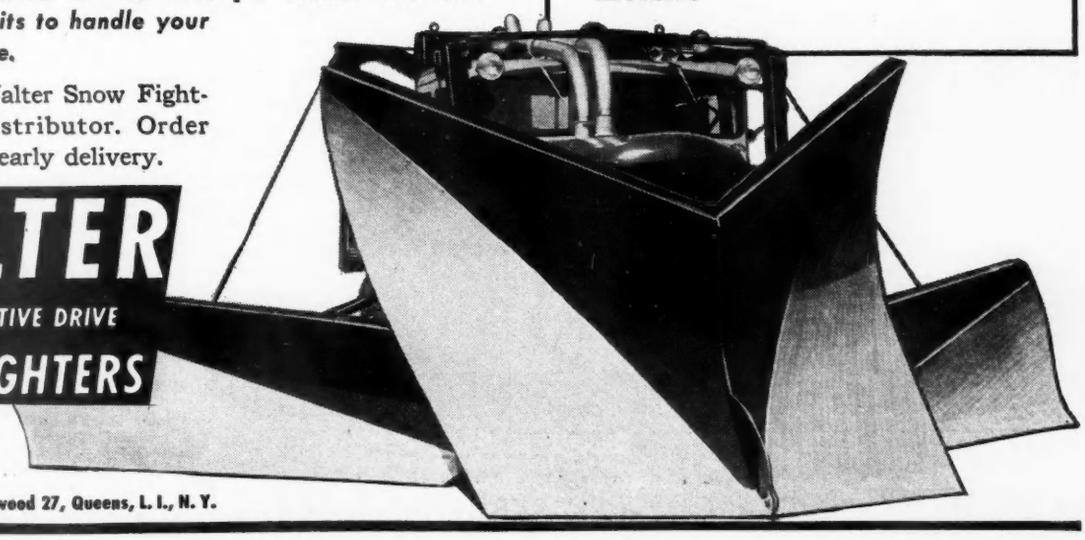

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Jones Motrola Corp., 132 Fairfield Ave., Stamford, Conn.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elect. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild." (Bel-type.) "Speedmatic Sterling." (Reciprocating type.)
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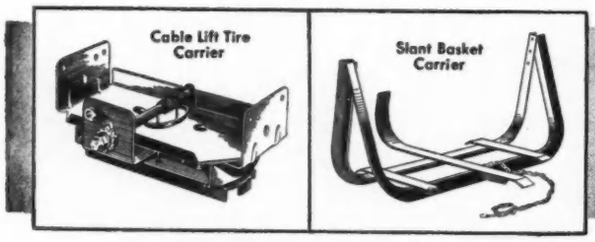

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Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Milwaukee Electric Tool Co., 5316 State St., Milwaukee 8, Wis. "Sand-All."
National Air Sander, Inc., 2810 Auburn St., Rockford, Ill. "Mity-Midget."
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Speedmatic Speed-Bloc."
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Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich.
Tannewitz Works, 315 Front Ave., N. W., Grand Rapids 4, Mich.
Wallace & Co., J. D., 134 S. California Ave., Chicago, Ill.
Yates-American Machine Co., Beloit, Wis.

SAWS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Quick-Saw."
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Saw."
Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn. "Whiz-Saw."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Kett Tool Co., 5 E. Third St., Cincinnati 2, Ohio. (Attachment, for use with portable electric drill.)
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. "Hand-I-Hack." (Hack.)
Louisville Electric Mfg. Co., 3008 Magazine Sts., Louisville, Ky. "Pioneer." (Hack.)
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill. "Mid-State Saw-Gun." (Attachment, for sawing or filing.)
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild," "Speedmatic."
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Skilsaw, Inc., 6033 Elston Ave., Chicago 30, Ill. "Skil Saw."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Attachment, for sawing and filing.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

SAWS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.

SAWS, Power Hack

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich. "Excel."
Maquoketa Co., Clark & Maple Sts., Maquoketa, Iowa. "Sawmore."
Peerless Machine Co., 1600 Junction Ave., Racine, Wis.
Racine Tool & Machine Co., State St., Racine, Wis.
Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "S-L."

SCALES, Truck Load Indicating

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Loadometer."

SCALES, Weighing (Dial Type)

Chatillon & Sons, John, 85-93 Cliff St., New York 7, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "Detecto-Gram."
Dillon & Co., Inc., W. C., 5410 W. Harrison St., Chicago 44, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.

SCALES, Weighing (Platform Type)

American Scale Co., 919 Baltimore Ave., Kansas City 6, Mo.
Bonded Scale Co., 2176 S. Third St., Columbus, Ohio.
Buffalo Scale Co., 1200 Niagara St., Buffalo 13, N. Y.
Chatillon & Sons, John, 85 Cliff St., New York 7, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.
Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.

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Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Millers Falls Co., Greenfield, Mass.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.

SCRAPERS, Carbon

Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Katz-Klaw."
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Proto Tools Co., 2209 Sante Fe Ave., Los Angeles 54, Calif. "Proto."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

SCREENS, Silk Printing (For Trucks)

Fowler Co., H. B., 250 Conestoga Rd., Wayne, Pa.

SCREW DRIVERS (Portable Electric)

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicycle."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Ski Drivers."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Scrugun."

SCREW DRIVERS (Portable Pneumatic)

Aro Equipment Co., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Driver."

SEALS, Oil & Grease, See Retainers, Oil and Grease

SEATS, Bus

ACF-Brill Motors Co., 62nd St. & Woodland Ave., Philadelphia 42, Pa.
American Seating Co., Ninth St. & Broadway, Grand Rapids, Mich.
American Wicker Works, Inc., 3105 26th St., Minneapolis 6, Minn.
Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.
Art Rattan Works, Inc., 167 Park Ave., E., Mansfield, Ohio.
Goodyear Tire & Rubber Co., Airfoam Dept., Akron 16, Ohio. "Airfoam."
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich.

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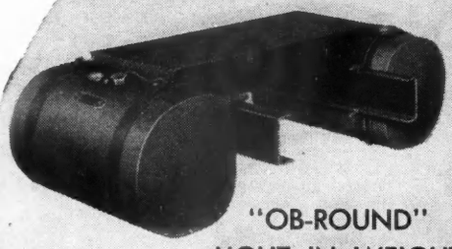

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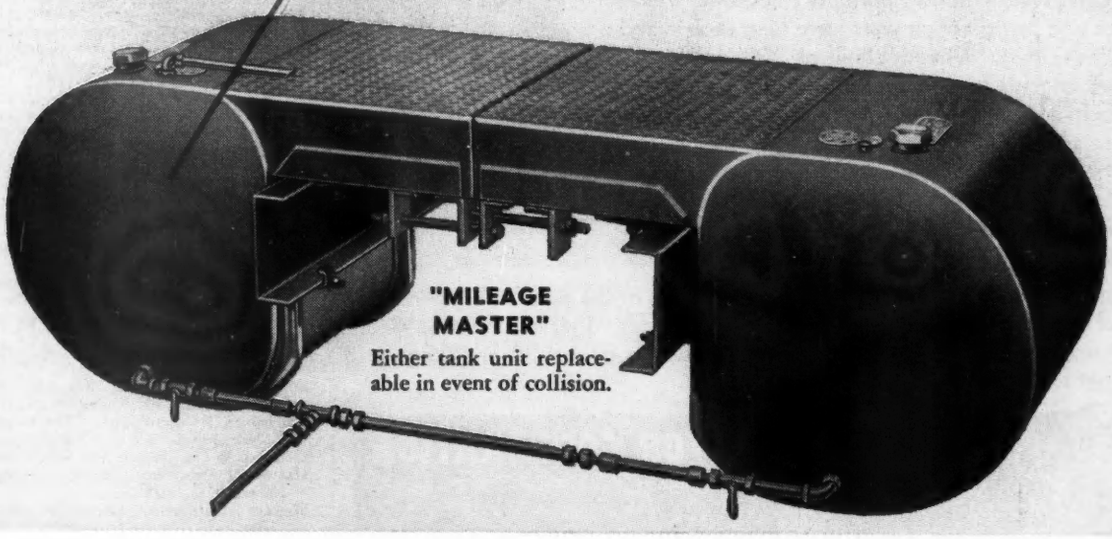

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Either tank unit replaceable in event of collision.

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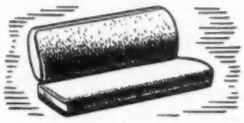
SEATS, Bus—Cont.

Karpen & Bros., S., 624 S. Michigan Ave., Chicago, Ill.
National Seating Co., 167 Park Ave. E., Mansfield, Ohio.
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

SEATS, Truck

(See also Cushions, Seat)



American Wicker Works, Inc., 3105 E. 26th St., Minneapolis, Minn.
Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis. (Spring suspension.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Comfort Cushion Co., 5062 Loraine Ave., Detroit 8, Mich.
Detroit Harvester Co., Motor State Products Div., 103 S. River St., Ypsilanti, Mich. (Spring.)
Goodyear Tire & Rubber Co., Airfoam Dept., Akron 16, Ohio. "Airfoam."
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich.
Milsco Mfg. Co., 2758 N. 33rd St., Milwaukee, Wis. (Foam rubber.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Spring suspension.)
National Seating Co., 167 Park Ave. E., Mansfield, Ohio.
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Pneumatic Seat Co., 841 Washington Ave., Rochester 17, N. Y.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

SEATS, Valve

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monochrome."
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co., Saginaw Div., 9771 French Rd., Detroit, Mich.
Haynes Stellite Co., Kokomo, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D. "Knock Out."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Peterson Welding Laboratories, 1423 Virginia St., Kansas City 6, Mo. "Peteson-Burston."
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Thompson Duracrome."
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Chrom-O-Loy;" "Toledo." (Cast Iron.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn.
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Chieftain."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

SHAFTS, Propeller

(Shaft only: for universal joints—see Universal Joints)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland 3, Ohio.
Blood Brothers Machine Co., Div. Standard Steel Spring Co., Allegan, Mich. (For trucks.)
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
Detroit Bevel Gear Co., 5130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Mechanics Universal Joint Div., Borg-Warner Corp., 2020 Harrison Ave., Rockford, Ill.
Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.
Morse Chain Co. (Div. of Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. "Morflex."
Neapco Products, Inc., Scott & Cross Sts., Pottstown, Pa.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Spencer Mfg. Co., Spencer, Ohio.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
U. S. Axle Co., Water St., Pottstown, Pa.
Universal Products Co., 6455 Kingsley Ave., Dearborn, Mich.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

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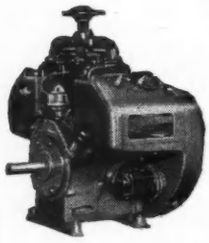

The Trail-Aire refrigeration unit used in the Fruehauf Aerovan Trailer illustrated above is powered by a Model VE-4 Wisconsin 4-cylinder, V-type engine which combines great compactness with highly efficient cooling at all temperatures and unfailing power. Power rating: 21.5 hp. at 2400 hpm.

It is on this basis that we invite your consideration of the practical application of Wisconsin Air-Cooled Engines to your needs. The line includes 4-cycle single cylinder, 2- and 4-cylinder models, in a 3 to 30 hp. range. Let's get together.

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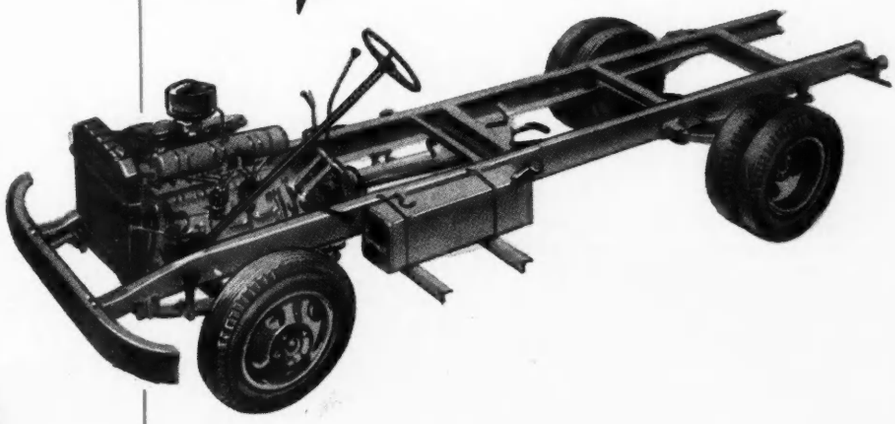

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SHAFTS, Propeller—cont.

York Axle & Forge Co., Loucks Mill Rd., York, Pa. "Bilt-Well;" "Foreman." (Sole distributors, Foreman, Inc., 2119 S. Wabash Ave., Chicago, Ill.)

SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
SkilSaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilShear."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn. "Stanley Unishear."
Van Dorn Electric Tools, Towson 4, Md. "Porto-Shear."

SHIMS, Axle Caster

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa. (Bronze.)
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Kwik-Ezee, Inc., 17-23 W. 60th St., New York 23, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Merrill Engrg. Laboratories, 1230 Lincoln St., Denver 3, Colo.
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind. "D & T."

SHIMS, Brake Lining

Atlas Asbestos Co., North Wales, Pa.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Fibre.)
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Coltrock." (Molded.)
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

SHIMS, Brass and Copper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio.
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Brass.)
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kickhaefer Mfg. Co., 901-903 S. Second St., Milwaukee 4, Wis.
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif. "Masco."
National Motor Bearing Co., Redwood City, Cal. (Brass.)
Rotax Mfg. Co., 24 Bathgate Place, Newark 7, N. J. (Brass.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 16, Mich.
Wisconsin Gasket Die Co., 8724A Granville Rd., Granville, Wis.

SHIMS, Laminated

Blaisdell Mfg. Co., 1404 Alamitos Ave., Long Beach 13, Calif. "Feathered." (Bearing.)
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "Laminum," "Fit-All." (Brass and Steel.)
National Motor Bearing Co., Redwood City, Cal.
Wisconsin Gasket Die Co., 8724A Granville Rd., Granville, Wis.

SHIMS, Steel

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear Axle End Play.)
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6208 Union St., Glenbrook, Conn.
National Motor Bearing Co., Redwood City, Cal.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

SHOCK ABSORBERS

Briggs Shock Absorber Co., 1523 E. 45th St., Cleveland 3, Ohio. (Friction hydraulic.)
Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio. (Hydraulic.)
Gabriel Co., 1523 45th St., Cleveland 3, Ohio. "Gabriel," "Cledraulic."

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Endurance and performance are the two qualities which distinguish Kenworth trucks operating on the highways. Regardless of the terrain, grades, climatic conditions, or the size and nature of the loads being transported—Kenworth trucks constantly deliver the goods on schedule, efficiently and dependably. From power to braking, from frames to driver comfort, from radiation to light weight, from springs to steering control—greater roadability is job-engineered into every Kenworth truck.

Garrett Freightlines, Inc., with headquarters in Pocatello, operate one of the West's most widespread highway transportation networks, offering single-line service to and from the intermountain territory, Seattle, Portland, San Francisco and Los Angeles. All line trucks, now numbering nearly 200, are Kenworths. C. A. Garrett, president, says: *"Our operations, averaging 13,000,000 miles a year, demand trucks with every roadability factor. This is one of the reasons we choose Kenworths."*

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SHOCK ABSORBERS—Cont.

Houdaille-Hershey Corp., Houde Engineering Div., 537 E. Delavan Ave., Buffalo 11, N. Y. "Houdaille." (Hydraulic.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)
Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa. (Hydraulic.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Hydraulic.)

SHOCK ABSORBER FLUID, See Fluid, Shock Absorber

SHOES, Brake

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (Lined.)
Grey-Rock Riv. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Pick Mfg. Co., West Bend, Wis.
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."

SHUTTERS, Radiator

(See also Covers, Radiator)

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Moto-Gard."
Hardy Mfg. Corp., Broadway & Water Sts., Pendleton, Ind. "Winterfronts."
Kysor Heater Co., Haynes St., Cadillac, Mich.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis.

SIGNALS, Direction Indicating

Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights.)
Auto Lamp Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Pathfinder."
Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)
Carlton Lamp Co., 736 S. 13th St., Newark 3, N. J.
Carpenter Mfg. Co., E. W., 1565 Railroad Ave., Bridgeport 5, Conn.
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.
Delbar Products, Inc., Seventh & Spruce Sts., Perkasie, Pa.
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Do-Ray Turn-Lite."
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. "Premier XX."
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Also combination stop, tail and license brackets.)
Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Industrial Scientific Co., 180 N. Fruit Ave., Fresno 9, Calif. "Indusco-Lite." (Semaphore type for trucks.)
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Parker Products, Inc., 20 N. 16th St., Minneapolis 3, Minn. "Parker Direct-A-Lite."
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses.)
Royson Div., E. W. Carpenter Mfg. Co., 1565 Railroad Ave., Bridgeport 5, Conn. (For trucks and buses.)
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Signal-Stat Corp., 523-39 Kent Rd., Brooklyn 11, N. Y. (Bus and truck.)
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Also stop lights and combination stop and tail.)
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer."
Vac-O-Lite Signal Co., 4680 Rubidonx Ave., Riverside, Calif. (Semaphores for trucks and trailers.)
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. "Yankee Jr."

SIGNALS, Gasoline Tank

Scully Signal Co., 88 First St., Cambridge, Mass. "Ventalarm."

SIRENS, Horn, See Horn Sirens

SIX WHEEL ATTACHMENTS, See Axle Units. Third for Trucks

SLEEVES, Cylinder

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)
Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.
Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."

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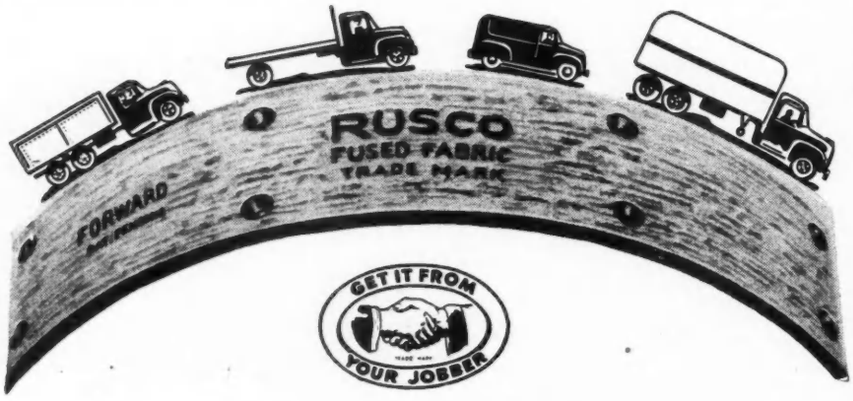

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SLEEVES, Cylinder—cont.

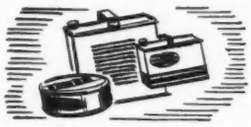
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
Jahn's Quality Piston Co., 2652 Lacy St., Los Angeles, Cal.
King Quality Products Co., 2320 Marconi St., St. Louis 20, Mo.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products Co., Lake Shore Drive, St. Joseph, Mich.
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Wet and dry assemblies.)
Versnick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich. (Dry type.)
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.

SLUDGE REMOVING COMPOUNDS, CRANKCASE, See Compounds, Crankcase Sludge Removing

SNOW PLOWS

Baker Mfg. Co., 571 Stanford Ave., Springfield, Ill.
Davenport-Besler Corp., 2305 Rockingham Rd., Davenport, Iowa. "Frink Sno-Plows." (Western United States.)
Donnell Hydraulic Co., Garden Prairie, Ill. (Hydraulic conversion unit.)
Frink Sno-Plows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States.)
Good Roads Machinery Corp., Minerva, Ohio.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Klauer Mfg. Co., Dubuque, Iowa. "Snogo." (Rotary.)
Root Spring Scraper Co., 527 W. North St., Kalamazoo 11, Mich.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Wausau Iron Works, Wausau, Wis.

SOAPS, Car Washing
(See also Detergents)



Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Lavo Co. of America, 300 N. Seventh St., Milwaukee, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."

SOLDERS
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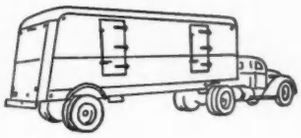
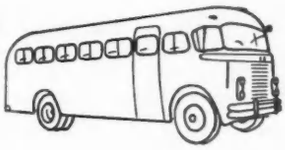
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill. (Acid-core, body, radiator flux core.)
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, N. Y. 5, N. Y. (Bar, body, acid core, rosin core.)

SOLVENTS, Oil, Carbon and Grease Removing

Allube Corp., 928 Allen Ave., Glendale 1, Calif.
Atomized Materials Co., 200 Magee Bldg., Pittsburgh 22, Pa. "Kwik-Solv."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix Metalclean."
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Blacosolv."
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Byr-Ma-Co."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Sludgebuster."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Circo Products Co., 6531 Euclid Ave., Cleveland, Ohio. "CirCold," "Dee Tee," "Per Solv," "Circo-Solv," "Dee-Solv."
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 5, N. Y. "Cisco," "Solvent 26A."
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kermulso."
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. "Cyclodiene," "Percyclodiene," "Dicyclodiene," "Tricyclodiene," "Running Gear."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass. "Gunk," "Hydro-Seal," "Motor Purge."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Delta Chemical Co., 408 Madison Ave., Memphis 1, Tenn.
Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foam," "Perm-A-Clor," "Triad."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid Dusol."





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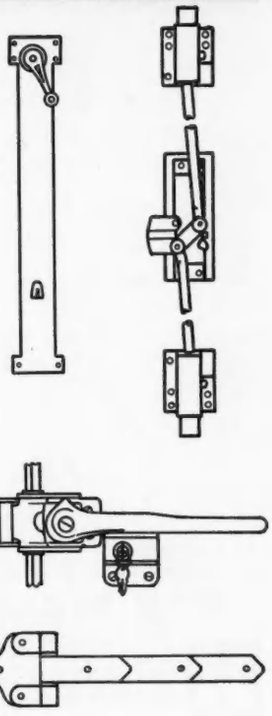

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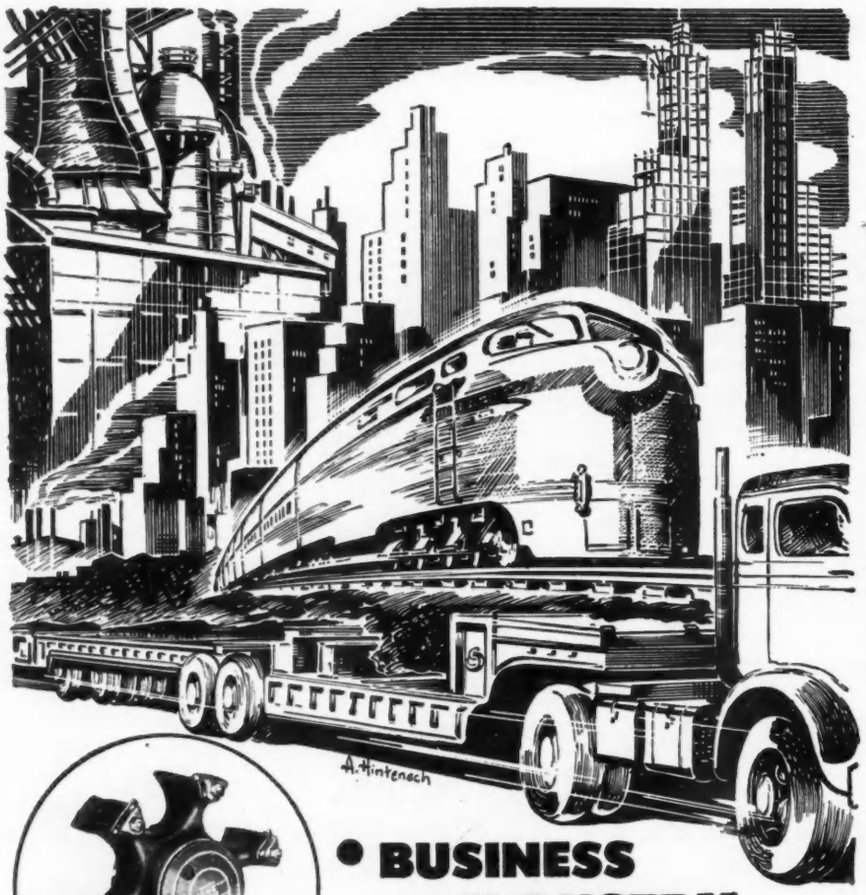

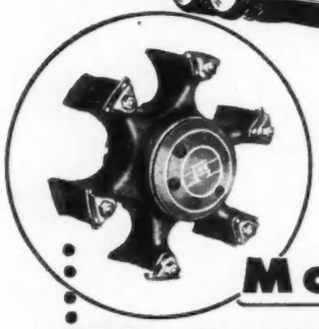

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Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Actusol," "Sprex."

du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del. "Perclene," "Triclene."

Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y. "Solvesso," "Varsol."

Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif.

Fire Organics, Inc., 211 E. 19 St., New York 3, N. Y. "F O."

Gerlach Co., A. E., P. O. Box 133, Eddington, Bucks County, Pa. "60 Cleaner," "Soax," "Jelzine."

Glisten Co., 13 Barnard St., Hillsdale, Mich.

Gray Mills Corp., 2006 Ridge Ave., Evanston, Ill.

Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."

Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zoff;" "Whiz Ho-Zof." (For garage use.)

Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa. "Hypressure Jenny."

Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."

Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.

Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.

Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.

Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus," "Magnusol."

Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Imperial Wash-er Clean."

Mitchell-Bradford Chemical Co., 2446 Main St., Stratford, Conn. "Black Magic."

Oakite Products, Inc., 22 Thames St., New York 6, N. Y.

Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."

Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Major."

Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."

Permo Products Co., 1629 Platte St., Denver 2, Colo.

Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."

Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill. "Phillsolv."

Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.

Schaffer Co., M., 597 St Ann's Ave., Bronx 55, N. Y.

Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solvo," "D-Greaso."

Shell Oil Co., 50 W. 50th St., New York 20, N. Y.

Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Nasolv," "Solv," "Vaposolv," "Savsol."

Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)

Standard Oil Co. of Calif., 225 Bush St., San Francisco 20, Calif.

Standard Oil Co. of Texas, 1600 City National Bank Bldg., Houston 1, Tex.

Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."

Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.

Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Penetrol," "Turco Mulsine," "Turco Transpo," "Ferrex."

U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo. "Z-4."

Warehouse Distributors Co., 2731 N. 6th St., Phila. 33, Pa. "Sure-Rite."

Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.

Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

SPACERS, Wheel

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.

Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. (Dual.)

SPARK PLUG CLEANERS, See Cleaners, Spark Plug

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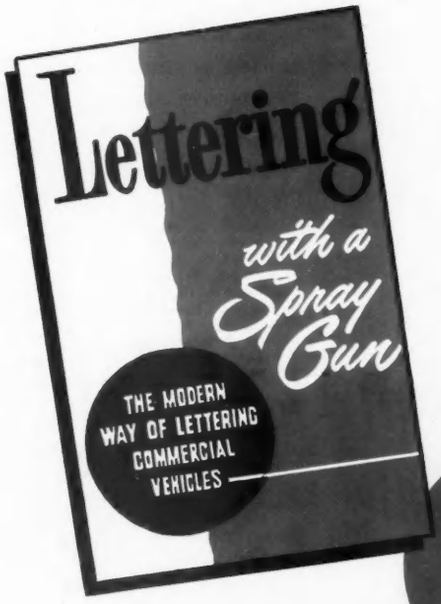

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SPARK PLUGS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
American Eagle Spark Plug Co., 3205 Barlum Tower, Detroit 26, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
B. G. Corp., 136 W 56 St., N. Y. 19, N. Y.
Blue Crown Spark Plug Co., Div. of Motor Master Products Corp., 1800 Winnemac Ave., Chicago 40, Ill. "Blue Crown Husky."
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.

Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eltingville, S. I. 12, N. Y. "Aldor," "Doering."
Doran, Inc., James A., 36 W. Exchange Pl., Providence 3, R. I.
Edison, Inc., Thomas A., Automotive Div., West Orange, N. J.
Electric Auto-Lite Co., Merchandising Div., Toledo, Ohio. "Auto-Lite."
Firestone Tire & Rubber Co., 1200 Firestone Pkwy., Akron, Ohio.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
International Spark Plug Co., 260 Grand St., Hamburg, Pa. "Thor."
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Leonard Spark Plug Co., 148 Summit St., Newark 4, N. J. "Leonard;" "Atomic-Flash" (Shielded).
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich. "Flint," "Luthy."
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Majestic." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Reflex Products Co., 10904 Madison Ave., Cleveland 2, Ohio.
Shurhit Products, Inc., Waukegan, Ill.
Stitt Ignition Co., 86 E. First Ave., Columbus 1, Ohio.
Thomas Automotive Products Mfg. Co., Rockford, Ill.
Trojan Products Co., Galion, Ohio. "Alvo," "Gold Bond," "Invader," "Power," "Trojan," "Gold Medal," "United," "National," "Karlife," "Motor King," "Pharis."
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

SPEEDOMETER CABLES, See Special Products at end of listings.

SPEEDOMETERS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)
King-Seeley Corp., K-S Bldg., 315 S. First St., Ann Arbor, Mich. "K-S."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "U. S. Tachograph." (Recording, for trucks.)
Waltham Watch Co., Crescent St., Waltham 54, Mass.

SPLASH GUARDS, See Guards, Splash

SPOTLIGHTS, See Lamps, Fog, Road, Spot

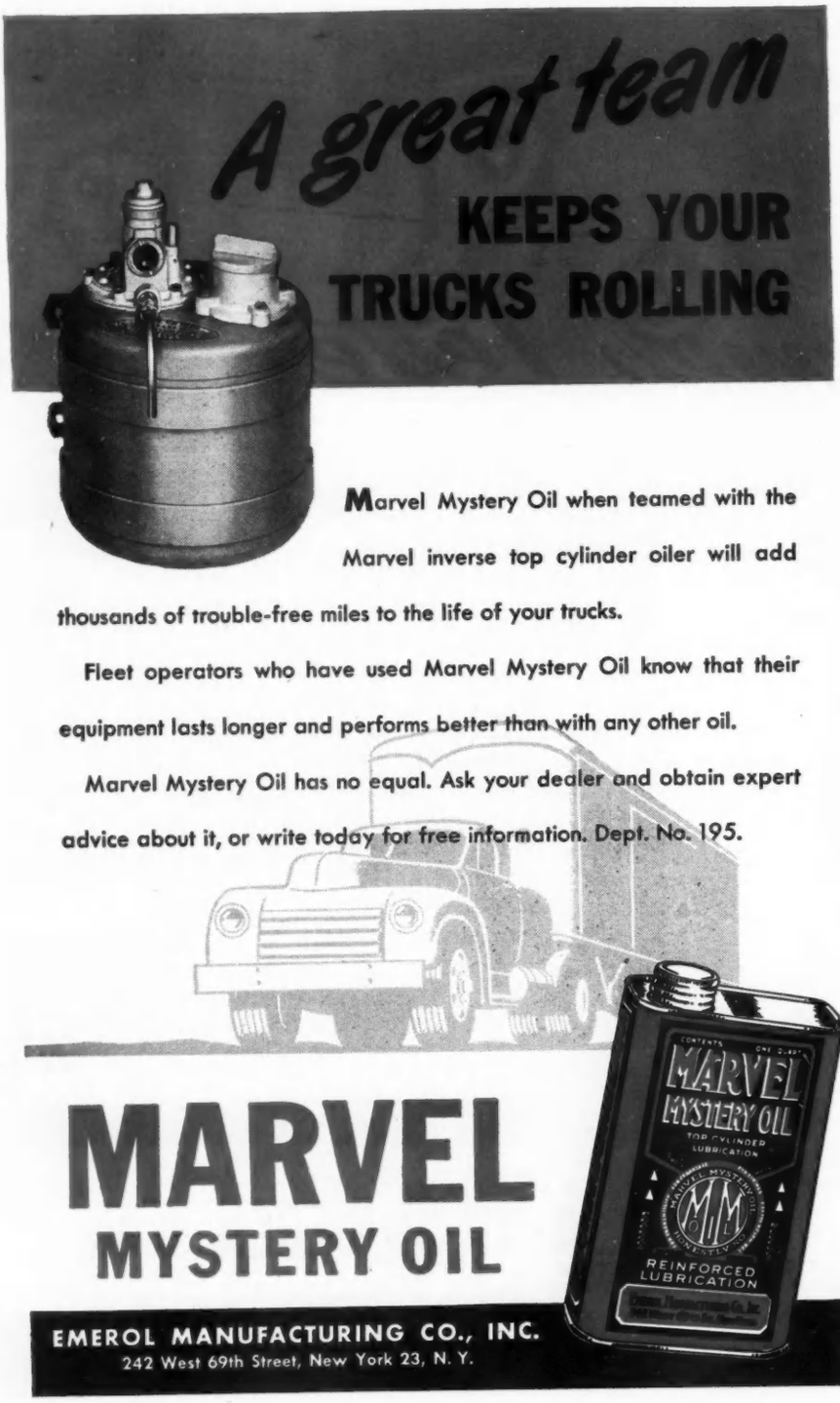
SPRAY BOOTH, See Booths, Spraying

SPRAYERS, Molten Metal

Accurate Tool & Engineering Co., 640 Tenth Ave., San Diego 1, Calif. "Trobrand."
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn. (Solder.)
Metallizing Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. "Mogul."
Metallizing Engineering Co., 38-14 30th St., Long Island City, N. Y. "Metco."
Turner Brass Works, 821 Park Ave., Sycamore, Ill.

SPRAYERS, Paint, Varnish, Lacquer, and Accessories

American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
Black Mfg. Co., 100 Dairy Rd., Parkton 63, Md. "Milburn," "Black Arrow."
Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill. "Marvel," "Speedy." (Also auto power.)
Campbell-Hausfeld Co., 801 Moore St., Harrison, Ohio. "Paragon."
Cesco Products, Inc., 30 N. La Salle St., Chicago 2, Ill. "Color Dabber."
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J. "Eclipse," "Gat."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."



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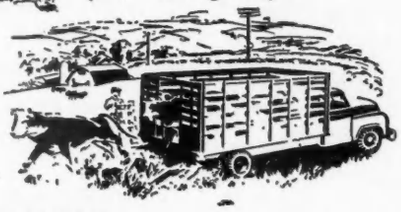

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G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.
Macleod Co., 2232 Bogen St., Cincinnati 22, Ohio.
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.
Meiser & Co., G. H., 327 E. Marquette Rd., Chicago 37, Ill. "Enginair."
Miller Corp., K. J., 2900 S. 61st Court, Cicero 50, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.

Plummer Spray Equipment Co., 700 Fillmore St., Napoleon, Ohio. "Handigrip," "Plummer."

Hidden Overheating DAMAGES EVERY MOTOR!

STOP IT WITH THIS NEW COOLING SYSTEM FILTER

"HIDDEN OVERHEATING" is dangerous because it doesn't show up on your gauge! It is caused the year around by rust and scale creating "hot spots" in the motor block and water jackets and is recognized by automotive engineers as a major cause of burned valves, scored pistons, damaged rings and other expensive engine break-downs. The new Perry Cooling System Filter is the original and first device assuring every scientific safe-guard against this engine-wrecking hazard!

The replaceable chemically activated element constantly cleans and softens the cooling system liquid, breaking up harmful rust, scale and sludge deposits and physically filtering them out of the system. This insures perfect circulation in the radiator and throughout the engine. You filter the gasoline, oil and air in the motor—don't neglect "hidden overheating"—install Perry Cooling System Filters for new operating economy!

Model "P"
Perry Cooling System Filter for capacities up to 24 qts. or 6 gals.

Model TB, also available for cooling system capacities from 6 to 15 gals. TB Special—15 to 30 gals.

$9.95 Plus Installation
UNQUALIFIED GUARANTEE!

Perry COOLING SYSTEM filter
Patents Pending

Pays for itself **MANY TIMES OVER.** The cost of just one radiator cleaning and rodding or valve grinding job more than pays for the Perry Filter. For information see your jobber or write Dept. C-11:

SPARK-O-LINER CORPORATION
Minneapolis 4, Minnesota

SPRAYERS, Undercoating

American Brake Shoe Co., Kellog Div., Rochester 9, N. Y. "Visco-Spray Guns."
Aro Equipment Corp., Bryan, Ohio.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 100 Dairy Road, Parkton 68, Md. "Muff Gun."
DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover." (Air operated.)
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y.

SPRINGS, Helper

Automotive Aids Corp., 3526 W. Fort St., Detroit 16, Mich.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. "Stab-O-Load."
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill.
Rowland, Inc., Wm. & Harvey, Lewis & Tacony Sts., Frankford, Philadelphia 24, Pa.
Service Spring Co., Box 638, Indianapolis 6, Ind. "Service-Indianapolis."
St. Louis Spring Co., Div. Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Trainor National Supply Co., New Castle, Ind.
Tuthill Spring Co., 760 W. Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portland 9, Ore.
Betts Spring Co., 868 Folsom St., San Francisco, Calif.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For cars, trucks, trailers and buses.)
Champ Spring Co., 2107 Chouteau Ave., St. Louis, Mo. "Champion."
Cincinnati Auto Spring Co., 311 Central Ave., Cincinnati 2, Ohio. "Casco." (For trucks and trailers.)
Detroit Steel Products Co., 2250 E. Grand Blvd., Detroit 11, Mich.
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.
Hoover Spring Co., 1335 Franklin St., San Francisco, Calif. "E. C.," "E. C. V."
Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.
Laher Spring & Tire Corp., 2615 Magnolia Sts., Oakland 7, Calif.
Liggett Spring & Axle Co., Monongahela, Pa. (Trailer.)
Maremont Automotive Products, Inc., S. Ashland at 16th St., Chicago, Ill. (Auto, truck, bus and trailer.)
Mather Spring Co., 939 Wolcott Blvd., Toledo 10, Ohio.
Perfection Spring Co., 11905 Miles Ave., Cleveland 5, Ohio.
Rowland, Inc., William & Harvey, Lewis & Tacony Sts., Frankford, Philadelphia 24, Pa.
St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
Service Spring Co., Box 638, Indianapolis 6, Ind. "Service-Indianapolis."
Standard Steel Spring Co., Coraopolis, Pa.
Trainor National Spring Co., Box 391, New Castle, Ind.
Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
United States Spring & Bumper Co., 4951 Alcoa Ave., Los Angeles 11, Calif.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

Uniform High Heat is Beneficial!

FLEET OWNERS! — Study This Chart, Read These Facts, Heed The Results!

How HOT is your Engine?

The amount of wear which takes place in an engine after a cold start depends upon how fast the various parts attain their correct operating temperature and how long it takes the oil to warm up and become fully circulated. The temperatures shown below the chart are the approximate operating temperatures.

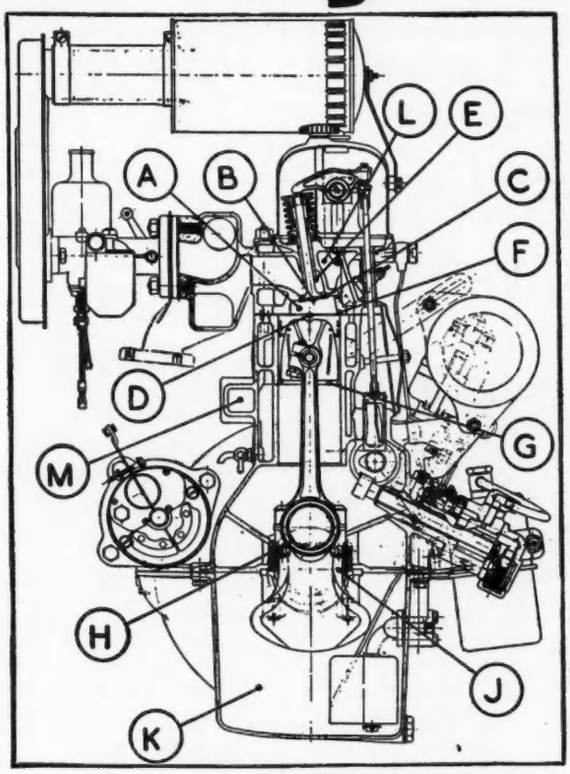

Chart by courtesy,
MOTOR TRUCK & COACH (Canada)

A—Flame Temperature	4532° F
B—Exhaust Valve Head	1400° F
C—Exhaust Valve Seat	662° F
D—Piston Crown (Center)	572° F
E—Exhaust Valve Guide (Inner End)	446° F
F—Cylinder Head	302° F
G—Piston Skirt	284° F
H—Big End Bearing	212° F
J—Main Bearing	203° F
K—Oilpan Oil	185° F
L—Cooling Water (Out)	176° F
M—Cooling Water (In)	122° F

KYSOR SHUTTERS

.. Provide Quicker Warm-Up and Keep the Kind Heat In!

Furnish Temperature Control

Contrary to popular belief, heat is helpful to a motor—*if uniform, and properly controlled.* A Kysor Shutter on your radiator *insures a quicker warm-up!* Operating automatically (by air or vacuum control) it maintains the proper temperature at all times. The results:

Less wear on cylinder wall and elsewhere . . . Prevents sludge . . . Avoids frequent engine breakdowns . . . Less oil consumption . . . Adds more power and longer life . . . 8%—12% more fuel saving

This means greater efficiency for truck operators and great economies for fleet owners. Kysor Shutters are easy to install —*or specify them from your truck manufacturer.*

Write for bulletin or Specific Information as applied to your Fleet.

"Built to Last"

KYSOR HEATER COMPANY Cadillac, Michigan

CANADIAN REPRESENTATIVES... RAILWAY & POWER ENGINEERING CORP.

NEW GLASGOW · MONTREAL · NORANDA · NORTH BAY · TORONTO · HAMILTON · WINDSOR · WINNIPEG · EDMONTON · VANCOUVER

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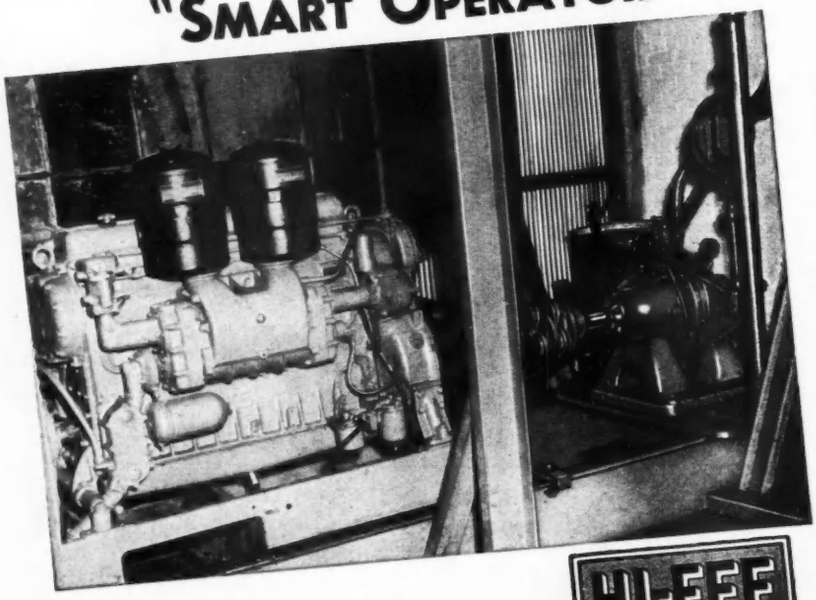
STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Folding.)
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horses.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

Picture of a "SMART OPERATOR"



HI-EFF

Economy-minded fleet operators take notice! Better than any portrait, this photograph depicts a "Smart Operator" in action. Taken in the shop of a large eastern machinery distributor, it shows an engine being tested with a Taylor "HI-EFF" Hydraulic Dynamometer.

The "HI-EFF" Dynamometer shown here is extremely useful as a run-in medium. It eliminates break-in runs on the part of the driver, and assures you not only that overhauling is o.k. . . . but that break-in is accomplished properly! Moreover, it gives accurate test readings over a surprisingly wide range of h.p. capacities on different types of engines.

Besides accuracy, there are other reasons why Taylor "HI-EFF" represents a "Smart Operator's" choice. Note the simple installation and the small size of the Dynamometer. An inexpensive engine test stand is being used in proving an overhaul job.

Taylor "HI-EFF" Dynamometers are stripped of costly, non-essential instrumentation. This means low initial cost, simple operation, with very little maintenance required.

Fleet owners, as well as engne rebuilders or machinery distributors, will be interested in more detailed information. Write for Bulletin 760 today.

DYNAMOMETERS • STATIC BALANCERS • PRECISION DRILLING MACHINES

TAYLOR DYNAMOMETER & MACHINE CO.

5110A West Center St. Milwaukee, Wis.

STANDS, Axle Repair (Rear)

See Stands, Engine Transmission Repair

STANDS, Body Parts Repair

Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Reck-Rack."

STANDS, Engine Transmission Repair

Cam Tool Co., 288 21st St., Oakland, Calif. "Kaasco."
Clayborne Mfg. Co., 2615 S. Michigan Ave., Chicago 16, Ill.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S."
Drum Jack Corp., 3781 E. 77 St., Cleveland 5, Ohio.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb. (For Ford and Mercury engines.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W." (For Ford engines.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Montague Equipment Co., 615 McKaig Ave., Troy, Ohio. "All Point."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Worthington Pump & Mchry. Corp., Dunellen Works, S. 2nd St., Dunellen, N. J.

STANDS, Portable Tool and Parts

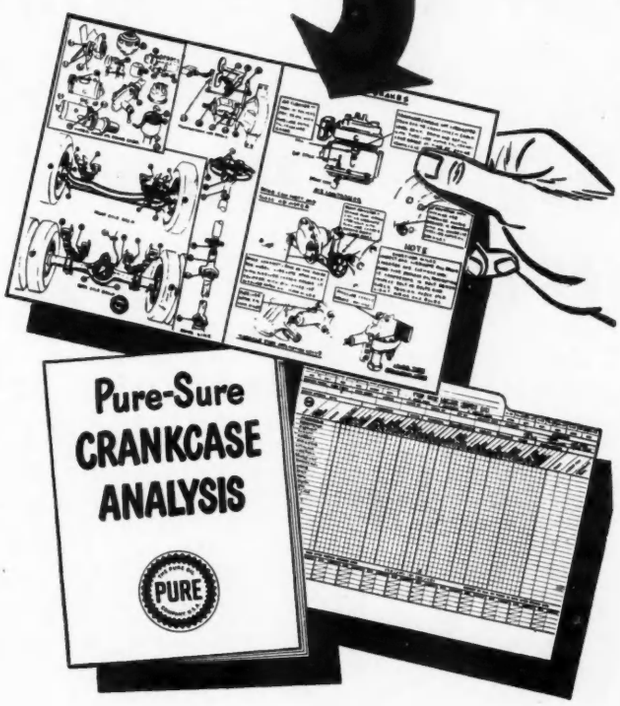
All-Steel-Equip Co., 544 Cleveland Ave., Aurora, Ill. "A-S-E."
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.
Angle Steel Stool Co., 55 Oak St., Plainwell, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Handy Andy."
Cornwell Quality Tools Co., Mogadore, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM Rotabin."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco Porto-Bench."
Heller Caster Co., 1220 W. Fort St., Detroit 26, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Clean-Tote."
Huot Mfg. Co., 550 N. Wheeler Ave., St. Paul, Minn.
Kennedy Mfg. Co., N. Harrison St., Van Wert, Ohio.
Lincoln Engrg. Co., 5701 Natural Bridge Ave., St. Louis 20, Mo.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Manufacturing Equip. & Engrg. Co., 558 Waverly St., Framingham, Mass. "Meeco."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
P & C Hand Forged Tool Co., Box S, Milwaukie, Ore.
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio.
Service Caster & Truck Corp., 231 S. La Salle St., Chicago 4, Ill. (Elevating.)
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

STARTING MOTOR DRIVE PARTS — See Parts, Starting Motor Drive

STARTING MOTORS—See Motors, Starting

NEW HELP

for fleet operators who want to cut operating costs



Let The Pure Oil Company help you get more effective lubrication, at no extra cost!

Now it's as easy as "1-2-3" to be *sure* about lubrication!

1 Ask The Pure Oil Company to make a *free* Pure-Sure Analysis of your used motor oil. Find out if your operating costs are excessive because of dirty engines, unnecessarily high oil consumption, faulty fuel combustion, or excessive engine wear.

2 Insure effective lubrication by following Pure's exclusive under-car and under-hood Lubrication Guide Charts—the most practical, easy-to-follow guides you've ever used.

3 Simplify your program of progressive maintenance with Pure's new and completely practical Preventive Service Records—designed exclusively for fleet operators and commercial users.

Get *all* these tested helps to more effective lubrication and more economical engine operation. See your Pure Oil salesman, or phone your local Pure Oil office, today!

Lower your cost per mile with Pure's great new line of fleet lubricants . . .

Made in a brand-new plant, Pure Oil's new fleet lubricants are skillfully refined and compounded to meet all the requirements of heavy-duty operation.

New Purol H.D. is fully fortified to meet the exacting demands of heavy-duty service in Diesel or gasoline-powered trucks, buses and tractors.

It contains detergent-dispersants to insure *maximum engine* cleanliness . . . oxidation and bearing corrosion inhibitors, and a foam suppressor, to provide *sure engine protection*.

It's the heavy-duty leader of Pure Oil's new fleet line, which includes Purol Motor Oil and Purol Super Heavy-Duty Motor Oil; Purelube Greases and Gear Lubricants; and Purol Torque-draulic Oil.

THE PURE OIL COMPANY
General Offices: Chicago

BRAND NEW Purol H.D.

THE OIL THAT CAN TAKE IT

Be sure with Pure • **Fleet lubricants** • **Gasolines** • **Tires, Batteries and Accessories**

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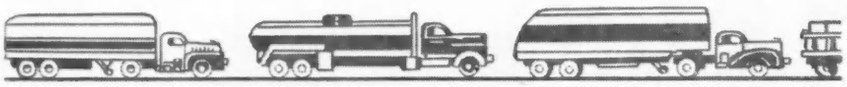
More *and* More Fleets



are switching to . . .

GUN IRON BRAKE DRUMS

ASSOCIATED TRANSPORT, INC.

is one of them . . .

Associated Transport operates over 3000 trucking units. In an operation of this size, replacement parts must prove their economy under widely varying conditions. In the case of brake drums, Associated Transport specifies Gun Iron Brake Drums for replacement.

Like other truckers, both large and small, they have found that Gun Iron Brake Drums wear longer and give uniform, dependable braking almost completely free of heat-checking or squeal. This is because the dense, close-grained structure of Gun Iron has great resistance to heat, with a very low coefficient of expansion (reducing "fade" to a minimum). In addition, its superior resistance to frictional wear has been conclusively proved to give more road-miles per drum.

Hunt-Spiller makes Gun Iron Brake Drums to original equipment specifications for most buses and trucks. They are accurately machined for easy, kink-free installation and are fully guaranteed. Investigate today how Gun Iron Drums will reduce *your* replacement costs and eliminate hours of brake service per unit.

SEND FOR FREE BULLETIN

This bulletin gives the whole story on Gun Iron Brake Drums. It also contains actual proof of their economies on buses and trucks.

HUNT-SPILLER GUN IRON • AIR FURNACE PROCESS • HSGI

HUNT • SPILLER

MANUFACTURING CORPORATION

AUTOMOTIVE DIVISION

399 DORCHESTER AVENUE • SOUTH BOSTON 27, MASS.

STEEL or IRON, Angle, Channel and Tee

Atlantic Steel Co., 16th & Mecaslin Sts., Atlanta 1, Ga. "Dixisteel." (Steel.)
Bethlehem Steel Co., Bethlehem, Pa.
Calumet Steel Div. of Borg-Warner Corp., 11 St. & Wentworth Ave., Chicago Heights, Ill.
Carnegie-Illinois Steel Corp., 434 Fifth Ave., Pittsburgh 30, Pa. "USS."
Hynes Steel Products Co., Oakdale Ave., Youngstown, Ohio. (Angle steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill.
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa. (Steel.)
Kawneer Co., 1105 N. Front St., Niles, Mich.
Precision Shapes, Inc., 15 Washington Ave., Suffern, N. Y.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; 1600 E. Euclid Ave., Detroit, Mich. (Iron.)
Whitehead & Kales Co., 58 Haltiner St., River Rouge, Mich. "W & K."

STEEL, Sheet

Alan Wood Steel Co., Conshohocken, Pa. "A. W. Dynalloy," "Permaclad." (Stainlessclad.)
American Nickeloid Co., Peru, Ill. (Nickel, chrome, copper and brass plated.)
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Chromium plated.)
Armco Steel Corp., 703 Curtis St., Middletown, Ohio. (Hot and cold rolled; also electrical.)
Bethlehem Steel Co., Bethlehem, Pa. "Beth Cu Loy."
Caine Steel Co., 1820 N. Central Ave., Chicago 39, Ill.
Carnegie-Illinois Steel Corp., 434 Fifth Ave., Pittsburgh 30, Pa. "USS," "U.S.S. Cor-Ten"; "Hi-Steel." (Licensees.)
Coatesville Plate Washer Co., 1644 Widener Bldg., Philadelphia 7, Pa.
Continental Steel Corp., 1108 S. Main St., Kokomo, Ind.
Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore, Md. (Stainless.)
Great Lakes Steel Corp., Ecorse, Detroit 29, Mich. (Enameled.)
Great Lakes Steel Corp., N-A-X Alloy Div., Detroit 29, Mich. "N-A-X."
Hynes Steel Products Co., Oakdale Ave., Youngstown, Ohio.
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Also "Hi-Steel," "Cor-Ten" [Licensee].)
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa.
Mahoning Valley Steel Co., McKees Lane, Niles, Ohio.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio. "Enduro" (Stainless); "Republic."
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Sharon Steel Corp., Sharon, Pa.
Superior Sheet Steel Co., Canton, Ohio.
Superior Steel Corp., 3112 Grant Bldg., Pittsburgh 19, Pa. "Su-Veneer." (Copper, monel or nickel coated.)
Tennessee Coal, Iron & Railroad Co., Brown-Marx Bldg., Birmingham, Ala. "USS Cor-Ten."
Universal-Cyclops Steel Corp., Station St., Bridgeville, Pa.
Washington Steel Corp., Griffith & Woodland Aves., Washington, Pa. "Micro Rold." (Stainless.)
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling Steel Bldg., Wheeling, W. Va.

STEERING GEARS, See Gears, Steering

STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for trucks; cut paper masks for spraying.)

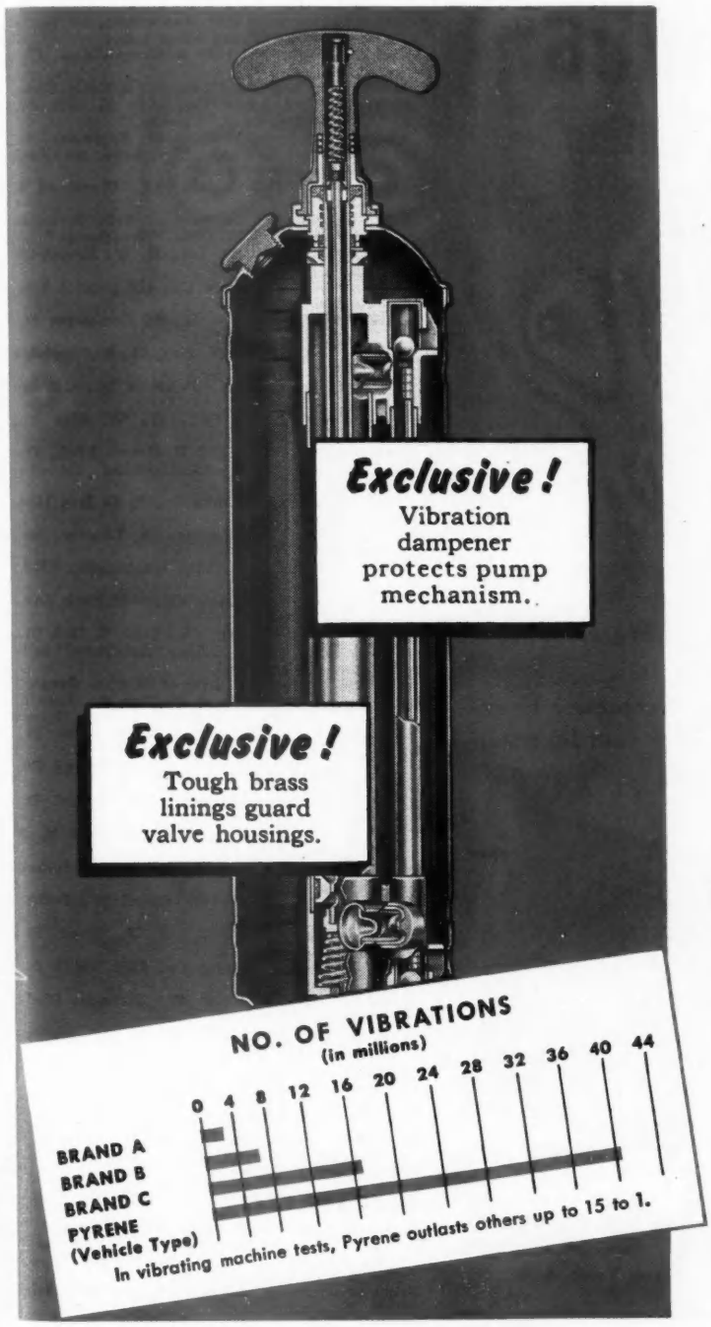
STEPS, Truck Body

Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y.
Cam Tool Co., 288 21st St., Oakland, Calif. "Kaasco." (Folding.)
Extendo Corp., 4950 Melrose Ave., Los Angeles 27, Calif.
Mesco Products, Crete, Neb. "Mesco Fold-Away." (Folding.)

Special construction gives PYRENE Vehicle Type Extinguishers

AT LEAST TWICE THE SERVICE LIFE

OF ORDINARY VAPORIZING LIQUID EXTINGUISHERS



Constant vibration cuts short the life of most vaporizing liquid extinguishers installed in trucks and buses.

Not so with Pyrene* 1 qt. and 1½ qt. Vehicle Type Extinguishers. When subjected to vibration, they'll give *at least twice the life of ordinary vaporizing liquid extinguishers.*

Special construction guarantees long service
Only Pyrene makes special vehicle type extinguishers. Their *extra* life is precision-built into them. A special vibration dampener holds the pump mechanism firmly in place, protecting it against both vertical and horizontal vibration. And tough brass linings guard the valve housings in every spot where wear could occur. *No other extinguisher offers these vital added construction safeguards.*

Vibration tests prove Pyrene's extra service life
It would be hard to imagine a tougher proving ground than a vibrating-machine test. These machines shake extinguishers 303 times per minute. That's like whipping at better than 60 m.p.h. over the roughest, most rutted back country road you could find anywhere. A Pyrene Vehicle Type Extinguisher was tested against extinguishers of three other major brands. And Pyrene outlasted every other extinguisher by more than 2 to 1 . . . the ratio going as high as 15 to 1. There is not a single known instance of the Pyrene heavy-duty mechanism wearing out in actual operation.

Lower price with but half the life doesn't pay
Buy on *facts* . . . buy Pyrenes. Their initial cost is no higher than that of many other brands. Yet their effective service life is at least twice that of others. For larger vehicles Pyrene 2 qt. or 1 gal. stored pressure units are recommended.

*T.M. Reg. U.S. Pat. Off.

Pyrene
REG. US PAT. OFF.
FIRE EXTINGUISHERS

PYRENE MANUFACTURING COMPANY
589 Belmont Avenue • Newark 8, N.J.
Affiliated with C-O-Two Fire Equipment Co.

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STEPS, Truck Body—Cont.

Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill. "Handy Step." (Side or rear.)

Safety Step Co., 1041 N. Mansfield Ave., Hollywood 38, Calif. "Saf-T-Step." (Side and rear.)

Truk-Step Co., 928 S. Flower St., Los Angeles 15, Calif.

Turk Corp., C. K., 1122 Meshawaka Ave., South Bend 15, Ind. "Caravan." (Folding.)

Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Hangs on tire.)

Western Motors, 4834 Cermak Rd., Cicero, Ill.

STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.

Bee-Line Co., Box 569, Davenport, Iowa.

Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."

Chief Alinement Corp., 440 13th St., Rock Island, Ill.

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.

Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

STRAIGHTENERS, Frame

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.

Bee-Line Co., Box 569, Davenport, Iowa.

Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."

Chief Alinement Corp., 440 13th St., Rock Island, Ill.

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Hydraulic, combination body and frame.)

STRAIGHTENERS, WHEEL, See Presses, Straightening (Wheel)

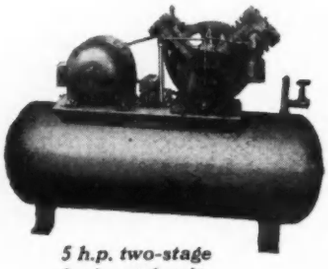
STRIPPERS, Paint, See Removers, Paint, Enamel and Varnish

YOU'RE LOSING MONEY

if you're not getting

ALL THE AIR YOU NEED

...ALL THE TIME



5 h.p. two-stage horizontal unit. Model 253D5

1½ h.p. two-stage vertical unit. Model V234C4

When a compressor is working under an overload, it's not supplying you with all the air you require. As a result, some air-powered equipment must remain idle or, at best, work at lowered efficiency.

You can find the answer to this problem in the complete line of Ingersoll-Rand Type 30 Air Compressors which ranges from ½ to 15 h.p.

Get in touch with "Air Compressor Headquarters" in your area. He is your Ingersoll-Rand Jobber.

Send for our Catalog 1500-B that makes it easy to select the proper compressor for a given pressure and capacity to meet all your requirements.

Ingersoll-Rand

11 Broadway, New York 4, N. Y.

519-3

STUDS

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich. (Truck.)

Central Screw Co., 3501 S. Shields Ave., Chicago 9, Ill.

Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize rear wheel hub.)

Chicago Screw Co., 1026 S. Homan Ave., Chicago 24, Ill.

Clark Bros. Bolt Co., Canal St., Milldale, Conn.

Cleveland Cap Screw Co., 2921 E. 79th St., Cleveland 4, Ohio. "Cle-Cap."

Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Cyl. head, manifold, oversize and wheel.)

Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.

Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio. "Shinylands."

Ferry Screw Products, Inc., E. W. Brookpark (Berea), Ohio.

Hartford Machine Screw Co., 476 Capitol Ave., Hartford, Conn.

Haskell Mfg. Co., Wm. H., 24 Commerce St., Pawtucket, R. I.

Haydon A. & M., 304 N. 22nd St., Philadelphia 3, Pa.

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.

Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.

Lock Thread Corp., 2832 E. Grand Blvd., Detroit 11, Mich. (Self-locking thread—licensors.)

Lundberg Screw Products Co., P. O. Box 1318, Lansing 4, Mich.

Mac It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.

Machine Products Co., 1235 Washington Blvd., Pittsburgh 6, Pa.

Mid-West Screw Products Co., 3662 Park Ave., St. Louis 10, Mo.

National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. (Also "Lok-Thred" self-locking—licensees.)

Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. (End-welded; sole distributor Nelson Sales Co., Toledo Ave. & E. 28th St., Lorain, Ohio.)

O'Hara Bros. Machine Co., 6533 Upland St., Philadelphia 42, Pa.

Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.

Ottemiller Co., Wm. H., Pattison St. & M. & P. R. R., York, Pa.

Pawtucket Mfg. Co., 327 Pine St., Pawtucket, R. I.

Prior Products, Inc., 4828 Racell St., Dallas, Tex.

Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.

Rockford Screw Products Co., 2501 Ninth St., Rockford, Ill.

Sterling Bolt Co., 209 W. Jackson Blvd., Chicago 6, Ill.

Wasmer Bolt & Screw Corp., 1300 Athens Ave., Cleveland, Ohio.

Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

SUSPENSION UNITS, AXLE (FOR TRAILERS)—See Axle Suspension Units, for Trailers

SWEEPERS, Road

Austin-Western Co., Aurora, Ill.

Columbia Engineering Service Co., 178 14th St., San Francisco, Cal. (Magnetic Type.)

Elgin Sweeper Co., Elgin, Ill.

Frink Sno-Plows, Inc., Clayton, Thousand Isle, N. Y.

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Grace Mfg. Co., 7000 S. Lanar St., Dallas, Tex.
Hough Co., Frank G., Libertyville, Ill.
Little Giant Products, Inc., 1530-60 N. Adams St., Peoria, Ill.
Multifinish Mfg. Co., 2118 Monroe, Detroit, Mich.

SWITCHES, Direction Indicating Signal

Arrow Safety Device Co., Mt. Holly, N. J.
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Pollak Corp., Joseph, 75 Freeport St., Boston, 22, Mass.
Saginaw Steering Gear Div., General Motors Corp., Clinton and Saginaw Sts., Saginaw, Mich.
Signal-Stat Corp., 523-39 Kent Rd., Brooklyn 11, N. Y.
Sparton Automotive Div. of Sparks--Withington Co., Jackson, Mich.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts., Philadelphia 36, Pa.

SWITCHES, Floor or Foot

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Headlight dimming.)
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Headlight dimming, foot operated.)
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind. (Foot dimming.)
Electric Auto Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Headlight dimming.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco." (Headlight dimming.)
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20-21 Wagarow Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." (Headlight dimming.)
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. "Nimco."
New York Coil Co., Mont Clare, Pa. "Nycco." (Headlight dimming, foot operated.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Headlight dimming.)
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Headlight dimming.)
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

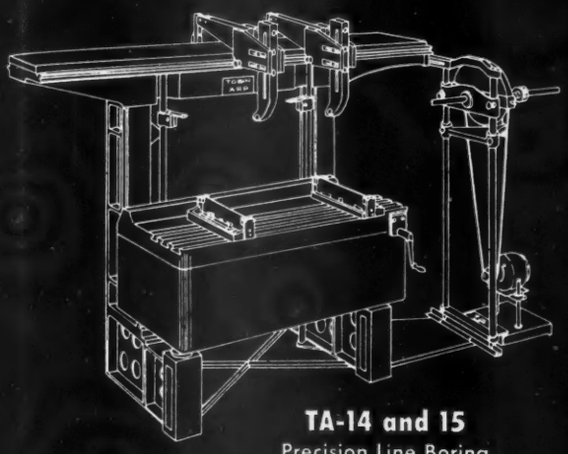
SWITCHES, Heater

Bridgeport Thermostat Div., Robertshaw-Fulton Controls Co., 1225 Connecticut Ave., Bridgeport 1, Conn.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kem Mfg. Co., 20-21 Wagarow Rd., Fair Lawn, N. J.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Ignition

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bendix-Scintilla—See Scintilla Magneto Div. of Bendix Aviation Corp.
Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.

TOP PERFORMERS



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Dial Indicator Centering
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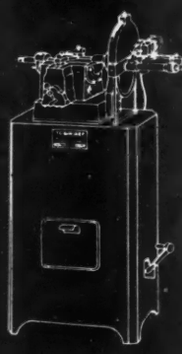
PM-100
Piston Pin Fitting Machine



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Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Engineered Products, Inc., Denver, Colo. "Oiltrol"—activated switch.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (For Ford, Chevrolet and Plymouth cars.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Scintilla Magneto Div. of Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix-Scintilla."
Soreng-Manegold Co., 1901 Clybourn Ave., Chicago, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Synchro-Start Products, Inc., 1046 W. Fullerton St., Chicago 14, Ill. (Automatic.)
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.

SWITCHES, Ignition (Cut-Off)

Durakool, Inc., 1010 N. Main St., Elkhart, Ind. "Tipover."
Engineered Products, Inc., 1224 Speer Blvd., Denver, Colo. "Oiltrol." (Activated switch.)
Transportation Safety Appliances, Inc., 343 S. Dearborn St., Chicago 4, Ill.

SWITCHES, Light

Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill. "Amko."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass
Connecticut Telephone & Electric Corp., Tiffany Div., 70 Britannia St., Meriden, Conn.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis. "C-H."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Watts Electric & Mfg. Co., 2222 E. Maple Rd., Birmingham, Mich.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Champlain & Chestnut Sts., Toledo 1, Ohio. "Auto-Lite."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Solenoid.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.

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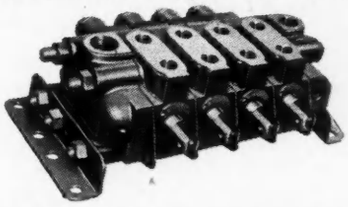

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National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., Waukegan, Ill.
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Sorensen Mfg. Co., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.

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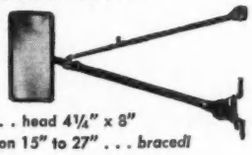

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Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Trailer.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
Murray Corp., Towson 4, Md.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Soreng Mfg. Corp., 9555 Eden Ave., Schiller Park, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed."
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

SYNCHRONIZERS, See Instruments, Distributor Testing

TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Electric.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Electric.)
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 24, Ill.

TACHOMETERS, Speed

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Amthor Testing Instrument Co., 45a Van Sinderen Ave., Brooklyn 7, N. Y.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
Bristol Co., Waterbury 91, Conn.
Corbin Screw Div., American Hardware Corp., 227 High St., New Britain, Conn.
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Electric Auto-Lite Co., Toledo 1, Ohio.
Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn. "Jones."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Metron Instrument Co., 432 Lincoln St., Denver 9, Colo. (Electric.)
Minneapolis-Honeywell Regulator Co., Brown Instrument Div., Wayne & Roberts Aves., Philadelphia 44, Pa.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
Sticht Co., Herman H., 27 Park Place, New York, N. Y. "Standco."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.
Waltham Watch Co., Crescent St., Waltham 54, Mass.
Zernickow Co., O., 15 Park Row, New York 7, N. Y. "O-Z."

TACHOGRAPHS, See Recorders, Vehicle Movement

TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)

TAIL PIPES, See Pipes, Tail and Exhaust

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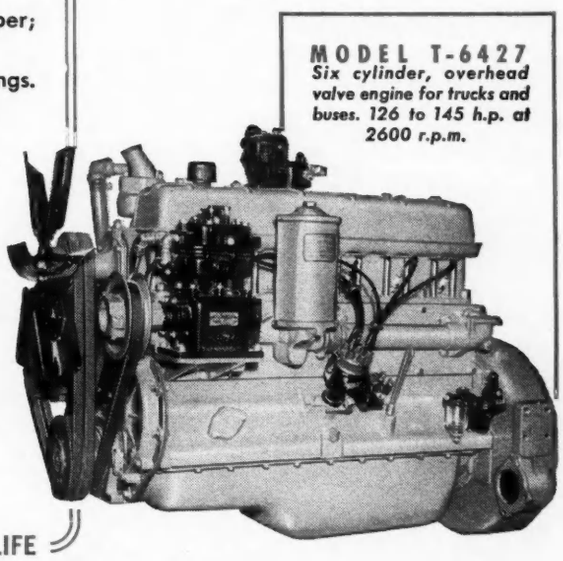
Remember, too, that no matter what your specific transportation job, on or off the highway, there's a Red Seal model engineered and built to do it RIGHT.



MODEL T-6427
Six cylinder, overhead valve engine for trucks and buses. 126 to 145 h.p. at 2600 r.p.m.

Continental Motors Corporation
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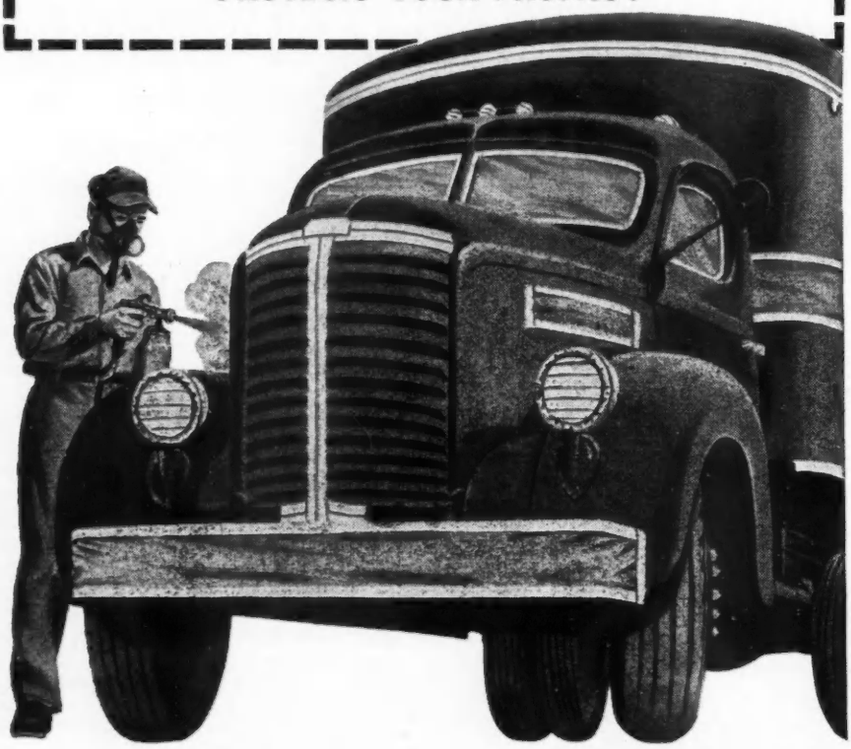

6 REASONS WHY

Permacel-77 helps fleet owners

SAVE MASKING TIME, CUT COSTS!

1. Comes off roll easier, quicker!
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3. Stronger!
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5. Faultless, accurate striping!
6. Strips off cleaner, easier!

Permacel-77 "Stretch" makes curves easy—speeds masking on windows of buses, cars, trucks.

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Twenty-five pages of masking procedure, complete with description of the **PERMACEL** *Portable Masker. Write Dept. 11-N at the address below.*

Permacel-77 strips off easily, quickly—leaves no residue on painted surfaces.

Permacel®-77

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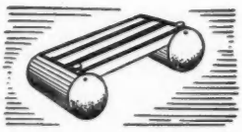
Braden Winch Co., Box 1709, Tulsa 1, Okla.
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio. (Split shaft.)
Chelsea Products Inc., 21 Buchanan St., Chelsea, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Couse Mfg., Inc., 300 Pacific St., Newark 4, N. J..
Davey Compressor Co., Kent, Ohio.
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Detroit Harvester Co., Detroit Div., 5450 W. Jefferson Ave., Detroit, Mich.
Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. "Graybar." (Sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif. "Fabco."
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (With hoist, winch and crane.)
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
Hercules Steel Products Corp., Box 477, Galion, Ohio.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
McCaby-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers-American."
Mobile Power, Inc., Box 997, Lansing, Mich.
Perfection Steel Body Co., S. East St., Galion, Ohio.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill.
St. Paul Div., Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe."
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Thieman Harvester Co., Albert City, Iowa.
Warford Corp., 44 Whitehall St., New York, N. Y.
Watson Co., H. S., 1145 Harrison St., San Francisco 3, Calif. "Watson-Brown-Lipe."

TALC, TIRE, See Lubricants, Tire

TANK BODIES, See Tanks, Trailer and Truck Body

TANKS (Fuel Supply)



American Safety Tank Co., 2814 Mercier St., Kansas City 8, Mo.
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Cutler Metal Products Co., 1025 Line St., Camden, N. J.
The Lintern Corp., 60 Lincoln Ave., Berea, Ohio. "Clyslad," "Cylsan." (Combination fuel tank and sander.)
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Michigan Fleet Equipment Co., 754 Front Ave., N. W., Grand Rapids 9, Mich.
Motors Metal Mfg. Co., 5936 Milford Ave., Detroit 10, Mich.
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
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Snyder Tank Corp., 3773 Lake Shore Blvd. (P. O. Box 14), Buffalo 5, N. Y. (Truck.)
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Bishman Mfg. Co., Osseo, Minn.
Dover Stamping Co., 80 Federal St., Boston, Mass.
Independent Iron Works, 84 Pine St., Oakland 7, Calif.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
Miller Rubber Products Co., 1254 S. High St., Akron, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Cal. "Boyco."

TANKS, METAL PARTS WASHING, See Washers (Metal Parts)

TANKS, Oil (Portable)

(Tanks and pumps on wheels)

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Gilbert & Barker Mfg. Co., Springfield, Mass. "Gilbarco Narro-Lube."
Phillips Pump & Tank Div., Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Wood Mfg. Co., John, Muskegon, Mich. "Bennett." (Selling company, Service Station Equipment Co., Muskegon, Mich.)

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Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Beall Pipe & Tank Corp., 1945 N. Columbia Blvd., Portland 3, Ore.
Boardman Co., 1401 W. 11th St., Oklahoma City, Okla.
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Cutler Metal Products Co., 1029 Line St., Camden, N. J.
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Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.
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Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (Truck.)
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Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.
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Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa. (Truck.)
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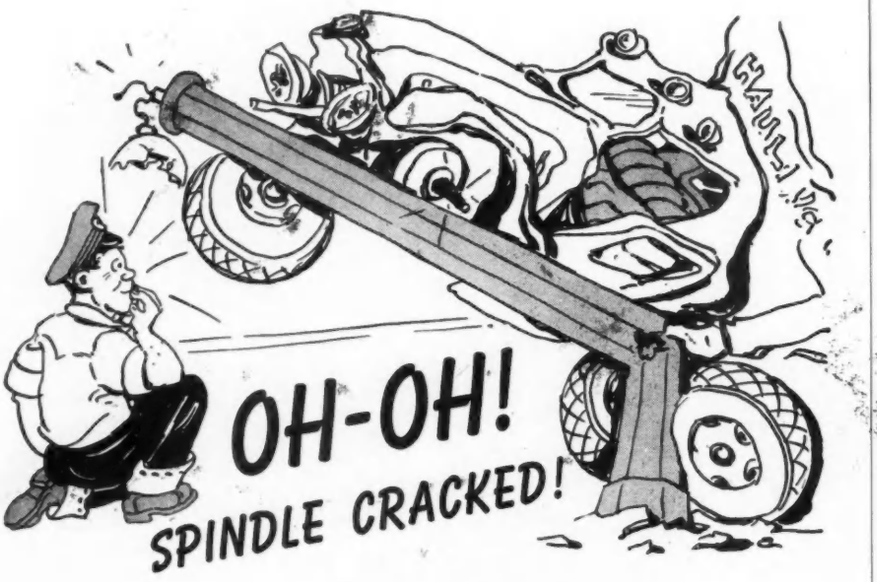

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Could Have Found the Crack During Overhaul

Needless failure of parts in service is dangerous, EXPENSIVE! It disrupts scheduled operations and promised deliveries. Accidents can be avoided by using safe, sure, MAGNAFLUX-MAGNAGLO inspection during overhaul.

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Fluorescent Magnaglo indication, as discovered on crank throw. Glowing line marks non-visible crack very near to final failure.

Magnaglo inspection of this steering spindle gives clear indication of otherwise invisible serious cracks that could cause failure.

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Write today for complete information—for you, and the shop to serve you

**Magnaflux-Magnaglo® TradeMarks of Magnaflux Corporation applied to its equipment and materials for magnetic particle inspection.*

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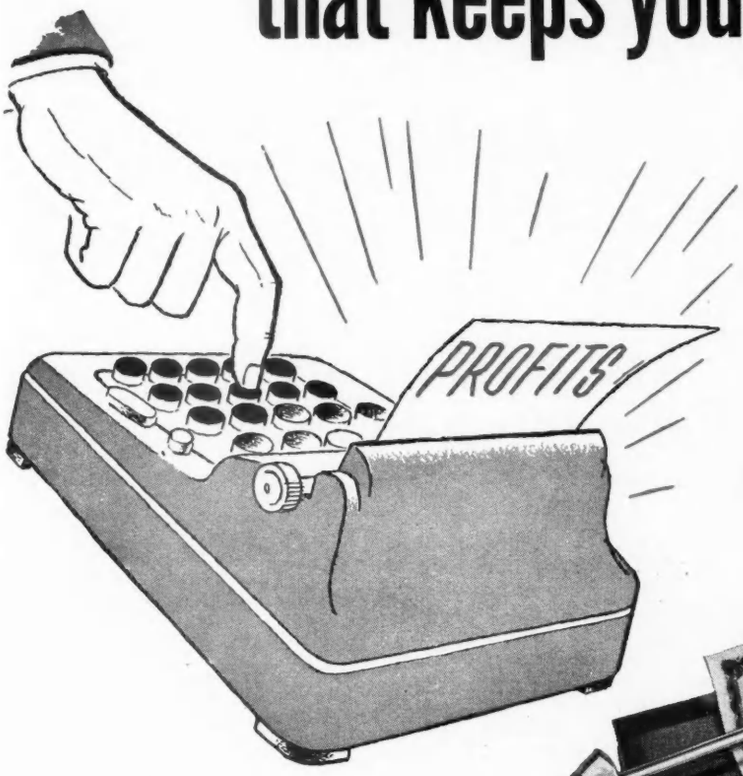
Low Cost Tire-Air Service that keeps your PROFITS HIGH!



GAUGE — INFLATE — GAUGE! That's the key to improved tire maintenance that can save you time and money. Cut delays — and enroute tire and tube repairs by using Schrader Modern Tire-Air Service as a part of your preventive maintenance.

Check your gauging equipment with a Schrader Trutest Special Gauge (#8106B). This is a precise instrument that should be a part of *your* profit tools. That's because this gauge lets you know when a shop gauge or inflating device is inaccurate — and *giving improper inflation to every tire it services!*

#8106B For Checking All Other Gauges

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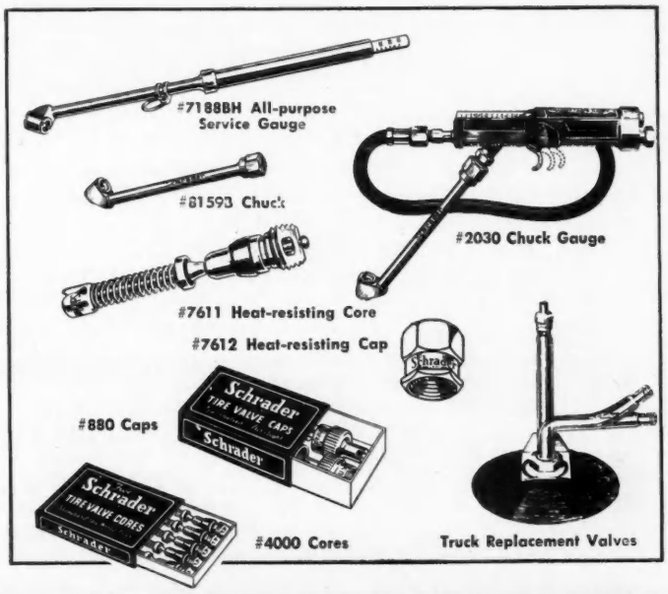
Schrader Truck Replacement Valves vulcanized the Schrader way beat the heat of continuous highway driving. Schrader Valve Cores and Caps are precision-produced to stand up and take it even under the severest operating conditions. Schrader Chucks, Chuck Gauges, and a gauge in every vehicle are your assurance of air-pressure correctly delivered — accurately measured. So, check over your tire-air service equipment — replacement with new Schrader products costs less in the long run.



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20-page Bicycle Safety Tests Booklet — you're sure to have a youngster at home who's a cycle enthusiast. Write for your copy today!

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Caldwell Co., W. E., 202 E. Brandeis St., Louisville, Ky.
Chicago Boiler Co., 1965 Clybourn Ave., Chicago 14, Ill. "Red Head." (Tanks.)
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Eaton Metal Products Corp., 13th St. & Wills Ave., Omaha 2, Nebr.
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. (Systems.)
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Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Independent Iron Works, 8th & Pine Sts., Oakland 7, Calif.
Kaustine Co., Perry, N. Y. (Tanks.)
Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.
Koven Bros., Inc., L. O., 154 Ogden Ave., Jersey City, N. J.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
National Store Specialty Co., Bareville, Pa. "Pennsylvania."
Niles Steel Tank Co., Niles, Mich. "Lifetime."
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Phillips Pump & Tank Div. Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.
Richmond Engineering Co., Seventh & Hospital Sts., Richmond 1, Va. "Reco."
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
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Truckstell Co., The, Union Commerce Bldg., Cleveland 14, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Cal. "Boyco."
Western Metal Specialty Co., 1213 N. 62nd St., Milwaukee 13, Wis.
Wood Co., John, Bennett Pump Div., Muskegon, Mich. "Bennett."

TAPE, Masking, See Masking, Tape

TAPPETS, Valve

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Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
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TELEPHONES, Mobile, See Radios, Two-Way

TERMINALS, Wire

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Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Barcy-Nicholson Co., 8100 Jay Rd., Detroit 4, Mich.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y. "Hylugs."
Clark Cable Corp., 11201 Berea Rd., Cumberland 2, Ohio.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
Fischer Special Mfg. Co., Morgan & Dover Sts., Cincinnati 6, Ohio. "Turned."
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts. (Tacony), Philadelphia 35, Pa.
Grand Haven Brass Foundry, 230 N. Hopkins St., Grand Haven, Mich.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill. "Imco."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
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Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
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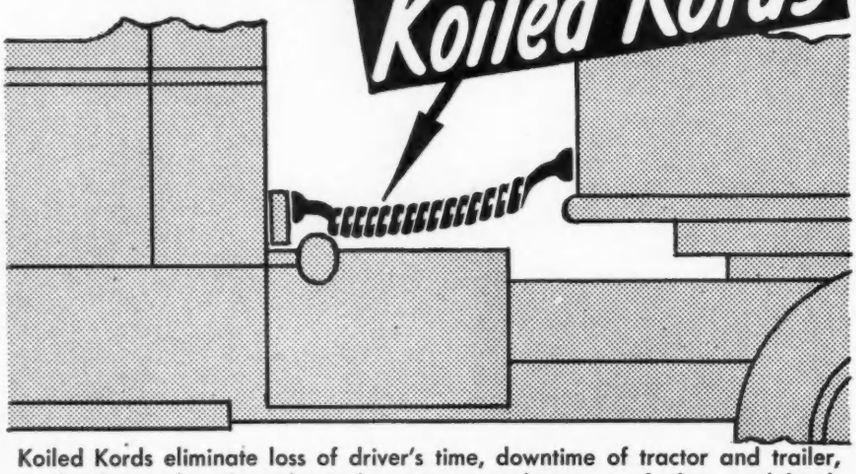
THE *Best* MAINTAINED FLEETS USE AUTAC *Koiled Kords*



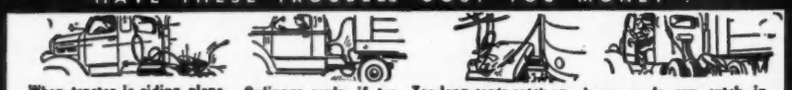
Koiled Kords eliminate loss of driver's time, downtime of tractor and trailer, costly electrical and mechanical expenses, replacement of plugs and kords and late deliveries due to broken wires often discovered when driver hitches tractor to loaded trailer.

KOIL IS UNCONDITIONALLY GUARANTEED FOR THE LIFE OF THE KORD

Koil Kords will stretch to 16 feet and retract to a neat, compact Koil, always out of the way. The outside diameter of Koiled Kords fits all presently known plugs. Koiled Kords are made with 4 or 6 conductors. Koiled Kords have a heavy, Neoprene Jacket to give long wear. . . It outwears any other type 20 to 1! It is resistant to abrasion and to the ill effects of sunlight, grease, acids, moisture and other factors that soon destroy rubber-covered cords.

SOLD THRU TRUCK DISTRIBUTORS EVERYWHERE

HAVE THESE TROUBLES COST YOU MONEY ?



When tractor is riding alone, long, loose cords often jog off and catch under the wheels destroying cord and plug.

Ordinary cords, if too long, lay against drive shaft and wear out.

Too-long cords catch on gas tank caps and other projections and break.

Loose cords can catch in the fifth wheel and be cut off when tractor is backing into trailer.

YOU CAN SEE HOW KOILED KORDS REMEDY ALL THESE TROUBLES

AUTAC, INC., *Sole National Distributors,* **P.O. BOX 1071, NEW HAVEN, CONNECTICUT**

Gentlemen:

Please send complete information, including prices, about AUTAC KOILED KORDS

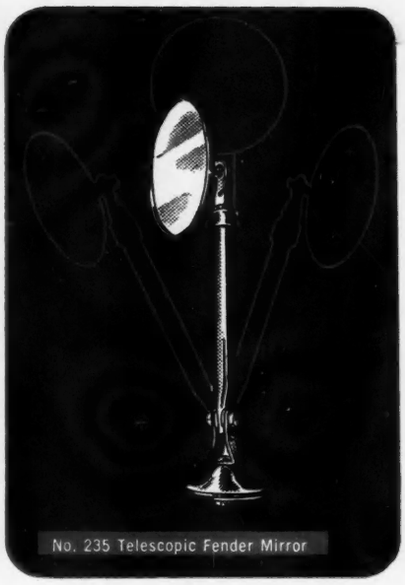
Name..... *Company*.....

Street.....*City*.....*Zone*.....*State*.....

My Truck Distributor Is .....

No. 920 Approved Directional Signals

No. 1106X Approved Extinguisher



No. 235 Telescopic Fender Mirror

No other accessory pays such big safety dividends at such small cost as Yankee's 920 Truck Directional Signals. Compare these features:—

- **Approved! The 920 meets new SAE Class A standards with plenty left over to spare!**
- **Lamps "demand" road attention on sunny days or stormy nights! Each 4½" lamp provides more than 12 sq. in. of illuminated lens area.**
- **Guaranteed for the life of the truck, the streamlined switch won't burn out! It fits every steering wheel column. Self-positioning – snaps back into "neutral" at the tap of a finger!**
- **Fool-proof pilot light—indicates whether or not each signal is operating—not just the switch!**
- **The rugged 920 is built to stand up to rough road treatment. All-steel lamps, bonderized to resist corrosion, then given a heavy coat of baked black enamel.**
- **You need no extras with the 920 – it's the *complete* truck signal set—2 red rear lamps, 2 amber front lamps, heavy-duty switch, flasher, wire and hardware for complete installation.**
- **The Yankee No. 920 gives you much more than any other and yet it's the lowest priced *quality* truck directional signal on the market!**

All these plus features—and yet priced to meet even the smallest operating budget. Order a set of 920's from your jobber today. At the same time ask to see the new Approved 1106X Yankee Fire Extinguisher. Filled with carbon tetrachloride. Also the No. 235 Telescopic Fender Mirror with diminishing glass built to withstand fender vibration; extends to 18" for all-over vision. For complete catalog and name of your nearest Yankee jobber write to Department CCJ-110, YANKEE METAL PRODUCTS CORPORATION, NORWALK, CONNECTICUT.

YANKEE

YOUR COMPLETE ACCESSORY LINE

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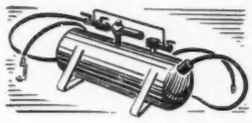
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa. "Triplex."
Zierick Mfg. Corp., 385 Gerard Ave., New York, N. Y.

TESTERS, Bearing Wear

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. I."
Cleveland Graphite Bronze Co., Repl. Sales Div., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monmouth."



Federal-Mogul Service, 11031 Shoemaker Rd., Detroit 13, Mich.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.

TESTERS, Brake

(See Gages, Brake Drum; Gages, Brake Shoe)

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind. "Cowdrey."
Interstate Brake Testing Machine Co., 1218 Rio Vista Ave., Los Angeles 23, Calif. "Electro Brakometer."
Kent-Moore Organization, Inc., 5-105 General Motor Bldg., Detroit 2, Mich.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Safety Lane."

TESTERS, Cylinder Block

Kerkling & Co., 8319 Allport Ave., Whittier, Calif. "K & W."
Moguloid Co. of America, 3520 W. Carroll St., Chicago, Ill.
Magna Flux Corp., 5900 NW Highway, Chicago 31, Ill. "Magnaflux," "Zyglo," "Stresscoat."

TESTERS, Diesel Equipment

Automotive Products, Inc., 1700 Grand Ave., Portland 19, Ore.
Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Buda Co., Harvey, Ill.

TESTERS, Driver

Allgaier, Earl, Arlington, Va.
Keystone View Co., Hamilton & Crandall Sts., Meadville, Pa.
Porto-Clinic Instruments, Inc., 2000 Varick St., New York 14, N. Y.

TESTERS, ELECTRICAL, See Instruments, Electrical Circuit Testing

TESTERS, ENGINE, See Analyzers, Trouble

TESTERS, Fuel Pump

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Airtex Automotive Div., Clifford Master Mfg. Co., Fairfield, Ill.
Arsco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa.
Gale Hall Engrg., Inc., 107 Northampton St., Boston 18, Mass. "Precision."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weidenhoff, Inc., Jos., 205 W. Wacker Drive, Chicago 6, Ill.

TESTERS, Gasoline Mileage

Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C. S."
Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa.
Gale Hall Engrg., Inc., 107 Northampton St., Boston 18, Mass. "Precision."
Gauthier, Donat A, 2970 W. Grand Blvd., Detroit, Mich. "Consometer," "Gauthier," "Vacomat."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

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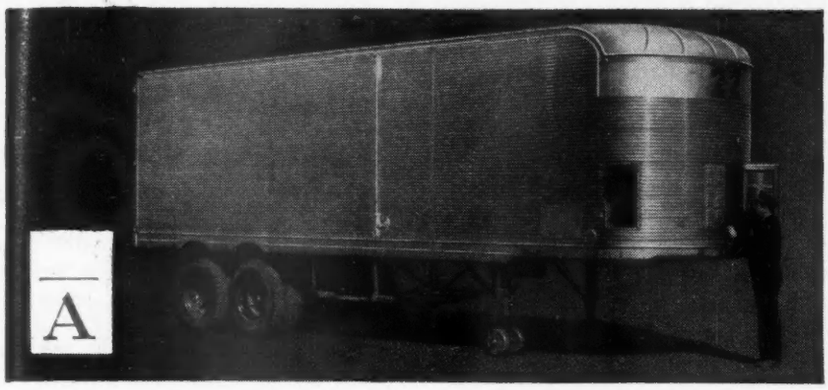
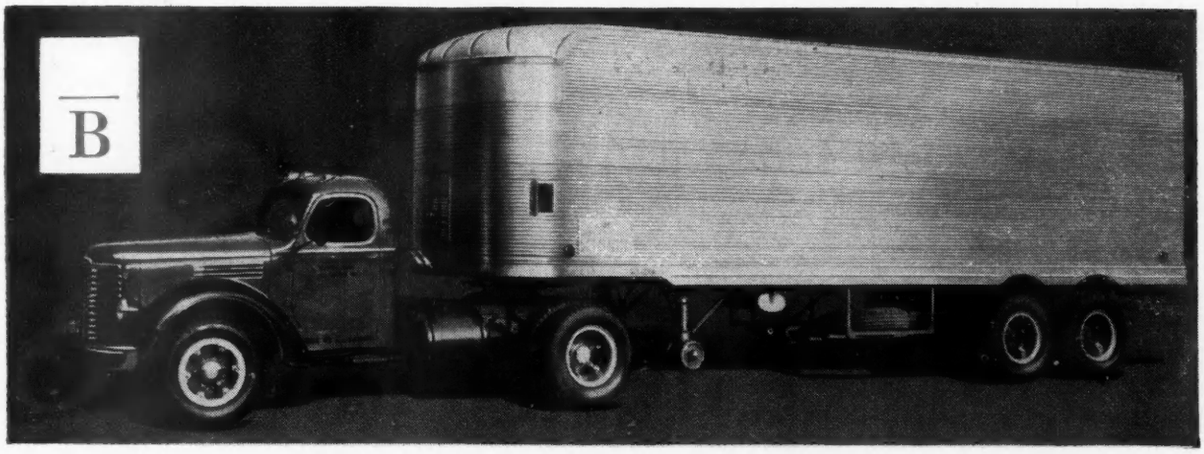


This Stainless Steel refrigerated trailer, owned by Crouch Brothers, Inc., St. Joseph, Mo., is shown at the left (A) after four years and 300,000 miles of road service. The photo below (B) shows the same trailer when new.

Which trailer has rolled 300,000 miles?



THIS is really not a fair question because these two photographs are "before-and-after" pictures of the *same* Stainless Steel trailer. One was taken when the trailer was delivered . . . the other shows the unit after more than 300,000 miles of all-weather, over-the-road service. Can you tell them apart?

The photo at the top shows the trailer as it looks today—just as bright and ready for the road as when the lower photo was taken four years ago.

Experiences like these are not uncommon among owners of Stainless Steel trailers. Again and again, this type of construction has shown how it defies the effects of time and service. Trailers fabricated from Stainless Steel don't rust out . . . far outlast other construction . . . maintain their attractive appearance year after year without the need for a drop of paint.

On the basis of long life alone, Stainless Steel is the best trailer investment you can make. But, in addition, Stainless trailers more than pay their way on the basis of the bigger payloads they make possible. Every possible ounce of dead weight is eliminated in Stainless construction.

Put all these advantages of Stainless Steel to work in your fleet. The operating and maintenance savings plus extra earning capacity it insures will quickly offset the slight additional cost of this superior type of construction.

For finest performance, specify U·S·S Stainless Steel. Quite likely your trailer manufacturer already uses this perfected, service-tested material, but it will pay you to be sure.

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UNITED STATES STEEL SUPPLY COMPANY, WAREHOUSE DISTRIBUTORS, COAST-TO-COAST • UNITED STATES STEEL EXPORT COMPANY, NEW YORK

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TESTERS, Gasoline Mileage—cont.

Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Snow Plastics Corp., 5840 S. Oakley Ave., Chicago 36, Ill.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. "Precise," "Zenith."

TESTERS, Headlight (Optical)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Rayoscope." (Electric eye; licensees.)

TESTERS, Inner Tube, See Tanks, Inner Tube Testing

TESTERS, Inspection for Cracks in Parts

Magnaflux Corp., 5900 NW Highway, Chicago 31, Ill. "Magnaflux," "Zyglo," "Stresscoat."

TESTERS, Radiator

Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa. "Flowrator."
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.

TESTERS, Spark Plug

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Acme Electric Corp., Cuba, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo, Ohio.
Cropley Instruments, 10 S. River St., Aurora, Ill.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio.
Fleetcraft, Inc., 111 W. Monroe Ave., Chicago 1, Ill.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Kant-Shok."
Park Metalware Co., Thorn Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "X Celite."
Stanley Tools, 111 Elm St., New Britain, Conn.
Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 22, Calif. "Vixen."

TESTERS, Valve and Clutch Spring

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (For valve and clutch springs.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Sturtevant Co., P. A., Addison, Ill.

THERMOMETERS, Recording and Indicating

Bacharach Industrial Instrument Co., 7000 Bennett St., Pittsburgh 8, Pa.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
Bristol Co., Waterbury 20, Conn.
Dillon Co., W. C., 5410 W. Harrison St., Chicago, Ill.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Engelhard, Inc., Charles, 900 Passaic Ave., East Newark, N. J.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery.)
Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.
Minneapolis-Honeywell Regulator Co., Brown Instruments Div., Wayne & Roberts Ave., Philadelphia 44, Pa.
Powers Regulator Co., 2738 Greenview Ave., Chicago, Ill.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo." (Indicating.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
Tagliabue Instruments Div., Weston Electric Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.
Thwing-Albert Instrument Co., Penn St. & Pulaski Ave., Philadelphia 44, Pa.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Max-Min."

THERMOSTATS

Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.
Bridgeport Thermostat Div., Robertshaw-Fulton Co., 1225 Connecticut Ave., Bridgeport 1, Conn.
Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Eveo Products Co., 160 W. 62 St., N. Y. 23, N. Y.
Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn. "Sylphon," "Sylphon Autostat."
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Hawk Tool & Engrg. Co., 20 W. Washington St., Clarkston, Mich. "Divert-A-Flo." (Sole distributors, Nason Co., 7663 Epworth Blvd., Detroit 4, Mich.)
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio.
United Electro Control Co., 85 School St., Watertown 72, Mass.

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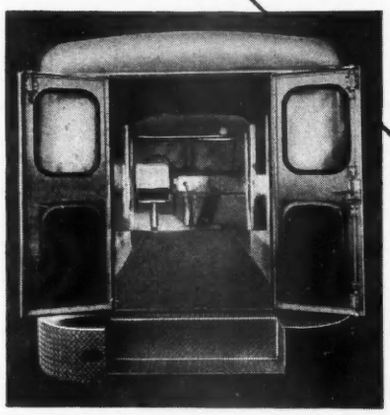

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TIMING CHAINS, See Chains, Timing

TIRE BUFFERS, See Buffers, Tire (Electric)

TIRE CARRIERS, See Carriers, Tire

TIRE CHAINS and EQUIPMENT, See Chains, Tire

TIRES, Pneumatic

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Denman Rubber Mfg. Co., Warren, Ohio.
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.

General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Gillette Tire Division, United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Kelly-Springfield Tire Co., Cumberland, Md.
Lake Shore Tire & Rubber Co., Des Moines, Iowa.
Lee Rubber & Tire Corp., Conshohocken, Pa.
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.
Mansfield Tire & Rubber Co., Newman St., Mansfield, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.
Seiberling Rubber Co., Akron, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRES, Solid

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRE GAGES, See Gages, Tire Pressure

TIRE INFLATOR, See Chucks, Air (Tire Inflating); also Meters, Air Tower

TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading

TIRE REGROOVERS, See Regroovers, Tire

TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing

TIRE REPAIR MATERIALS, See Compounds, Tire Repair

TIRE REPAIR TOOLS, See Tools, Tire

TIRE SPREADERS, See Tools, Tire Spreading

TIRE VULCANIZERS, See Vulcanizers, Portable and Vulcanizer, Shop

TOOLS, Battery Service

Acorn Mfg. Co., 33rd & Reed St., Erie, Pa. "Amco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Armour Products Co., 9253 Nicollet Ave., S., Minneapolis 20, Minn. (Cable removers.)
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. (Terminal post.)
Barcalo Mfg. Co., 225 Louisiana St., Buffalo 4, N. Y. (Pliers.)

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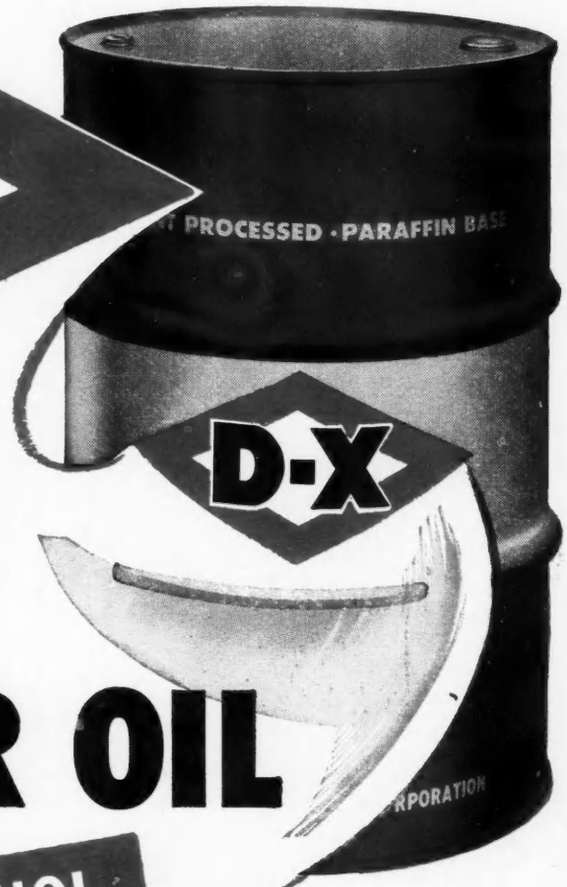

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Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. "Channellock." (Pliers and clippers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
General Scientific Equip. Co., 27th & Huntingdon Sts., Phila. 32, Pa.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand." "Van Chrome."
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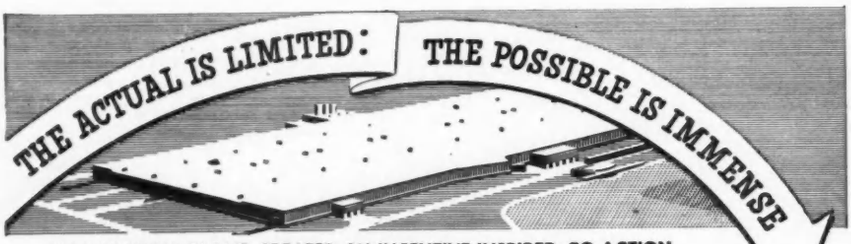
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lectrolite Corp., Hickory St., Defiance, Ohio. "Tru-Fit." (Pliers and wrenches.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
M & F Mfg. Co., 426 E. Main St., Springfield, Ohio. (Battery cable pullers.)
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C. & C."
Murray Corp., Towson 4, Md.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.



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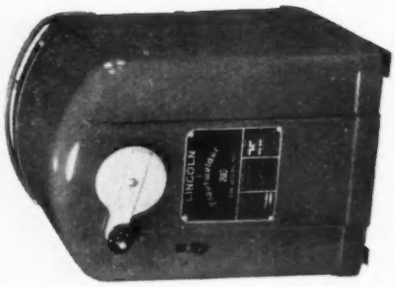

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Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Ausco."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. (Hammers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. Y. "Vixen." (Files, etc.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand." "Van Chrome."
Keystone File Sharpening Co., 7720 Maie Ave., Los Angeles 1, Calif.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Nicholson File Co., 23 Acorn St., Providence 1, R. I. "Nicholson Superior." (Files.)
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson." (Hand.)
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. "Fndrol." (Hand.)
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio. (Rubber hammers.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.
Stream Line Tools, Inc., Conover, N. C.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Syracuse Alloy Metals Corp., 316 Pearl St., Syracuse 3, N. Y. "Samco."
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Body and Fender Repair (Portable Electric)

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Red Devil Tools, Coit St., Irvington 11, N. J.

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Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Flex-O-Power."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Hein-Werner Power Plus."
Holcraft Co., 250 N. Vinedo Ave., Pasadena 8, Calif.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

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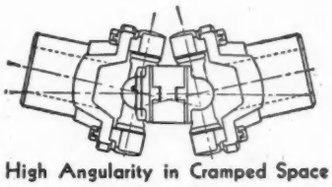
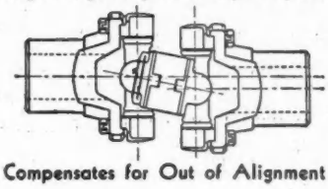
American Gage Co., 143 17th Ave., Paterson, N. J.
Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin." (Hammers.)

SOLVE YOUR CLOSE-COUPLED PROBLEMS — With —



High Angularity in Cramped Space



Compensates for Out of Alignment

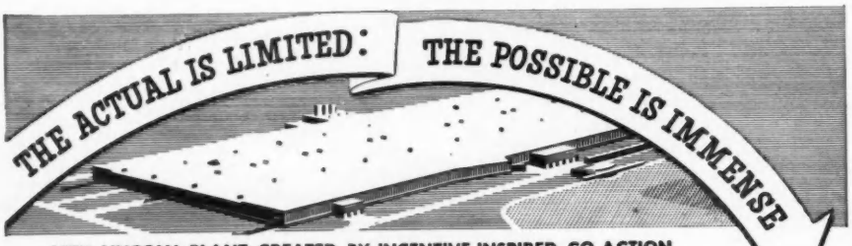
MECHANICS close-coupled type Roller Bearing UNIVERSAL JOINTS are specially designed for operation within cramped quarters, and where shafts are out of alignment — as in rear engine cars, trucks and busses. Let our engineers show you how these MECHANICS joints will conserve space and compansate for offset shafts, in your new models. These joints fit into spaces that engineers formerly considered too short for universal joints. Our new catalog — showing complete line of MECHANICS Roller Bearing UNIVERSAL JOINTS — will be sent to manufacturers, upon request.

MECHANICS UNIVERSAL JOINT DIVISION
Borg-Warner • 2034 Harrison Avenue, Rockford, Illinois

MECHANICS
Roller Bearing BW
UNIVERSAL JOINTS
For Cars • Trucks • Busses and Industrial Equipment

TOOLS, Battery Service—cont.

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill. (Terminal crimpers.)
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Blue Bird." (Pliers, etc.)
Bishman Mfg. Co., Osseo, Minn.
Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. "Channellock." (Pliers and clippers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
General Scientific Equip. Co., 27th & Huntingdon Sts., Phila. 32, Pa.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lectrolite Corp., Hickory St., Defiance, Ohio. "Tru-Fit." (Pliers and wrenches.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
M & F Mfg. Co., 426 E. Main St., Springfield, Ohio. (Battery cable pullers.)
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C. & C."
Murray Corp., Towson 4, Md.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.



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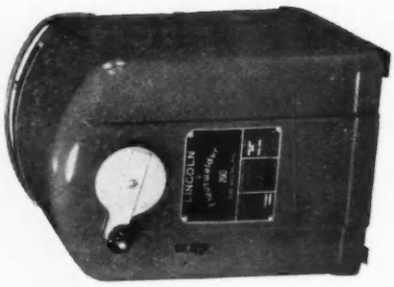

Lincoln "Fleetwelder 200 AC" has "Arc-Booster" pioneered by Lincoln.

SHORT-CUTS YOUR COSTS by speeding welded repairs

Time and cost cutting possibilities are immense with new fleet maintenance welding techniques made possible by Lincoln's "Fleetwelder."

Easier welding with the "Fleetwelder's" automatic starting arc permits even the inexperienced welder to make strong, high-quality welds in the shortest time . . . at the lowest cost.

Greater range efficiently handles electrodes from 5/64" to 1/4" for light body work to heavy frames and axles.

Price is lower than any welder of comparable capacity. NEMA rated 30 to 250 amps. Operates on single phase power.

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TOOLS, Body and Fender Repair (Hand)

A-B-C Mfg. Co., 2757 N. Ruth St., Phila. 34, Pa.
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Ausco."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. (Hammers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. Y. "Vixen." (Files, etc.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Keystone File Sharpening Co., 7720 Maie Ave., Los Angeles 1, Calif.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Nicholson File Co., 23 Acorn St., Providence 1, R. I. "Nichelson Superior." (Files.)
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson." (Hand.)
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. "Fndrol." (Hand.)
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio. (Rubber hammers.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.
Stream Line Tools, Inc., Conover, N. C.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Syracuse Alloy Metals Corp., 316 Pearl St., Syracuse 3, N. Y. "Samco."
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Body and Fender Repair (Portable Electric)

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Red Devil Tools, Coit St., Irvington 11, N. J.

TOOLS, Body and Fender Repair (Portable Hydraulic)

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Flex-O-Power."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Hein-Werner Power Plus."
Holcraft Co., 250 N. Vinedo Ave., Pasadena 8, Calif.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

TOOLS, Body and Fender Repair (Portable Pneumatic)

American Gage Co., 143 17th Ave., Paterson, N. J.
Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin." (Hammers.)

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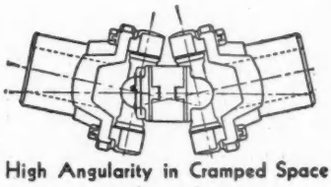
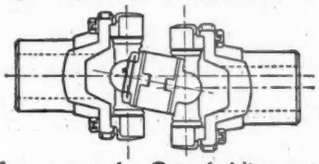


High Angularity in Cramped Space



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MECHANICS
Roller Bearing BW
UNIVERSAL JOINTS
For Cars • Trucks • Busses and Industrial Equipment

TOOLS, Body and Fender Repair (Portable Pneumatic)—*cont.*

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Fender irons.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Hauschild Mfg. Co., F. J., 540 Main St., Oneonta, N. Y. "Rams-Head."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Hammers.)
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis. (Hammers.)
Seiden Pneumatic Tool Co., 423 Barrett St., Jackson, Mich. (Hammers.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

TOOLS, Brake Cylinder Cleaning and Polishing

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y. "Eagle."
Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

TOOLS, Brake Spring Removing & Replacing

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Utica Drop Forge & Tool Corp., 2500 Whitesboro St., Utica, N. Y. (Pliers.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Superrench."

TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Rootar Tool Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Rub-Stone."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIlvaine, Inc., 16 Hudson St., New York 13, N. Y. (Rimac.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Contacto," "Ideal," "Tungsto," "Taconite," "Vim."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

TOOLS, Cylinder Reboring (Portable)

(See also Hones, Cylinder. Also Deglazers, Cylinder)

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Detroit Boring Bar Co., 690 E. Fort St., Detroit 26, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rottler Boring Car Co., 1727 First Ave., S., Seattle 4, Wash.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "St. Louis Superior," "S-L."
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Van Norman Co., 2640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Combination boring and grinding machines.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Flexible Shaft

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Balmar Corp., N. A., Strand & Co. Div., 3500 Clipper Mill Rd., Woodberry, Baltimore 11, Md. "Strandflex."
Binghamton Flexible Shaft Div., Swartz & White Mfg. Co., 486 Chenango St., Binghamton, N. J.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Flexmaster."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.

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Profit-minded fleet owners everywhere are reducing truck and bus "lay-up" time as much as 50% by Hypressure Jenny Steam Cleaning motors, chassis, parts, etc., before servicing or repair. Time saved in the shop means increased road mileage . . . greater profits.

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Besides these savings, Hypressure Jenny cleans garages, repair shops, equipment, tools, grease racks, runways, floors, walls, windows, etc., 10 times faster than they can be cleaned by hand.

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"1001 Ways to Extra Profits."

It tells how Hypressure Jenny will help you keep your fleet rolling and earning.

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HOMESTEAD VALVE MANUFACTURING COMPANY
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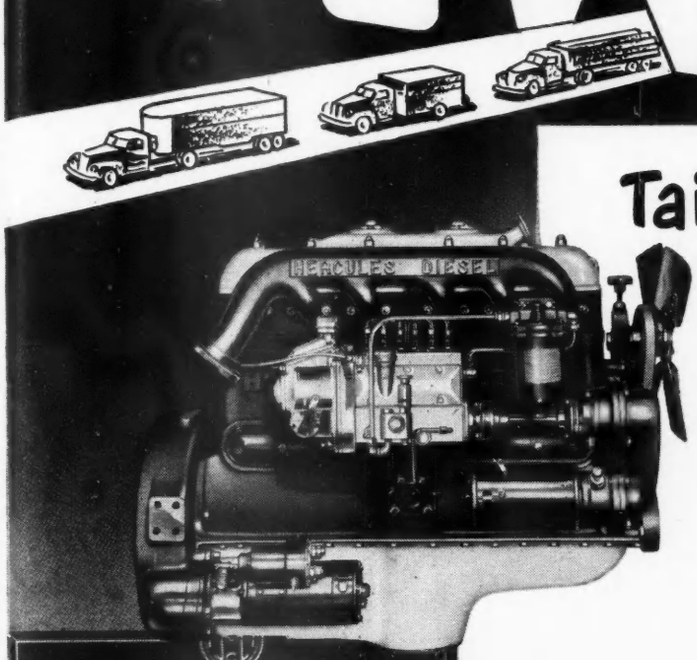
POWER

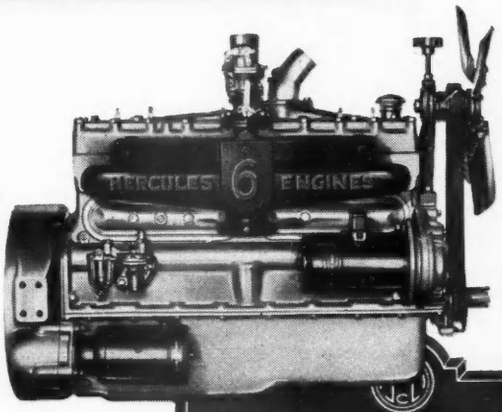


HERCULES DIESEL ENGINES

Model DRX Hercules 6 cylinder Diesel Engine 529 cu. in. displacement

Tailored to fit YOUR JOB!

Whether you build trucks or operate them, it is important that the engine in them measures up to the toughest of hauling assignments the trucking industry has to offer. Hercules engines solve this problem. Built in a broad range of piston displacements and horsepower ratings they offer a wide selection in both gasoline and diesel to insure . . . the most practical size for the job . . . lowest possible cost-per-mile of operation . . . high torque characteristics for maximum payloads . . . and ample reserve to master difficult terrain. You are invited to draw upon Hercules' many years of experience in serving the truck industry when planning future power requirements.



Model JXLD Hercules 6 cylinder Gasoline Engine 339 cu. in. displacement

HERCULES GASOLINE ENGINES

HERCULES ENGINES 3 TO 500 H. P.

GAS AND GASOLINE ENGINES

Model	Bore and Stroke	Cu. In. Displ.
Two Cylinder		
BXB	2⅞" x 3"	39
NXA	3" x 4"	56.5
NXB	3¼" x 4"	66.3
Four Cylinder		
ZXA	2½" x 3"	59
ZXB	2⅝" x 3"	65
IXA	3" x 4"	113
IXB	3¼" x 4"	133
JX4E	3½" x 4¼"	164
JX4C	3¾" x 4¼"	188
JX4D	4" x 4¼"	214
Six Cylinder		
QXA	3⅛" x 4⅛"	190
QXB	3¼" x 4⅛"	205
QXC	3⅜" x 4⅛"	221
QXLD	3 7/16" x 4¼"	236.7
JXE	3½" x 4¼"	245
JXB	3⅝" x 4¼"	263
JXC	3¾" x 4¼"	282
JXD	4" x 4¼"	320
JXLD	4" x 4½"	339
WXC-3	4¼" x 4½"	383
WXLC	4" x 4¾"	358
WXLC-3	4¼" x 4¾"	404
TDXB	4⅜" x 5¼"	474
RXB	4½" x 5¼"	501
RXC	4⅝" x 5¼"	529
RXLC	4⅝" x 5¼"	529
RXLD	4¾" x 5¼"	558
RXLDH	4¾" x 5¼"	558
HXB	5" x 6"	707
HXC	5¼" x 6"	779
HXD	5½" x 6"	855
HXE	5¾" x 6"	935

DIESEL ENGINES

Model	Bore and Stroke Inches	Piston Displ. Cu. In.
Two Cylinder		
DIXC	4" x 4½"	113.1
DIXD	4¼" x 4½"	127.5
Four Cylinder		
DIX4B	3¼" x 4"	133
DIX4D	3⅝" x 4"	166
DOOB	3¾" x 4½"	198.8
DOOC	4" x 4½"	226.2
DOOD	4¼" x 4½"	255
Six Cylinder		
DIX6D	3⅝" x 4"	249
DJXB	3½" x 4½"	260
DJXC	3¾" x 4½"	298
DJXH	3¾" x 4½"	298
DJXHF	3¾" x 4½"	298
DWXC	4" x 4¾"	358
DWXD	4¼" x 4¾"	404
DWXLD	4¼" x 5"	426
DWXLDF	4¼" x 5"	426
DRXB	4⅜" x 5¼"	474
DRXC	4⅝" x 5¼"	529
DFXB	5" x 6"	707
DFXC	5¼" x 6"	779
DFXD	5½" x 6"	855
DFXE	5⅝" x 6"	895
DFXH	5¾" x 6"	935
DFXHF	5¾" x 6"	935
Eight Cylinder		
DNX V-8B	5¾" x 6"	1247
DNX V-8C	6" x 6"	1348
DNX V-8D	6¼" x 6"	1468
DNX V-8DS	6¼" x 6"	1468

"Hercules POWER UNITS are available, equipped with any of the above engines"

HERCULES MOTORS CORPORATION • CANTON, OHIO, U. S. A.

TOOLS, Flexible Shaft—cont.

Dumore Co., 14th & Racine Sts., Racine, Wis.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Haskins Co., R. G., 2651 W. Harrison St., Chicago 27, Ill. (Sanding, grinding, polishing, screwdriving and nut setting.)
Jarvis Co., Chas. L. Middletown, Conn.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Martindale Motorflex."
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "Kellerflex."
Precise Products Co., 1328 Clark St., Racine, Wis. "Coolflex."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Stow Mfg. Co., 38 Shear St., Binghamton, N. Y.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

TOOLS, Hand

Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Apco Mossberg Co., Lamb St., Attleboro, Mass. "Mossberg."
Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio.
Armstrong Bros. Tools Co., 5200 Armstrong Blvd., Chicago 30, Ill.
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 3, Conn.
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Cal.
BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.
Bath & Co., John, 18 Grafton St., Worcester, Mass.
Bay State Tap & Die Co., Chauncy St., Mansfield, Mass.
Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)
Bemis & Coll Co., 125 Main St., Springfield, Mass. "B&C."
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Bluebird."
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn. "Vitalloy."
Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis. "Blackhawk," "Nugget."
Boker & Co., 101 Duane St., New York, N. Y.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Bremil Mfg. Co., 1700 Pittsburgh Ave., Erie, Pa. "All-Alloy."
Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Blue-Forge," "Hy-Bar."
Brubaker & Bros., Co., W. L., Millersburg, Pa.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)

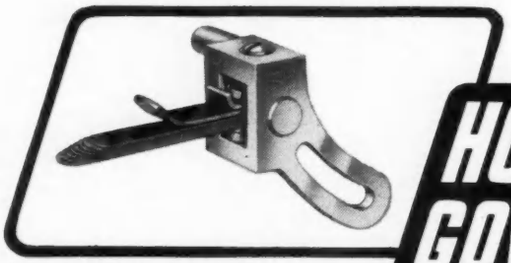
Callahan Mfg. Co., 90 Halton St., Danver, Mass.
Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. "C-T-K."
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.
Cornwell Quality Tool Co., Mogadore, Ohio.
Conant & Donelson Co., Conway, Mass.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "CS." (Wheel bearing adjusting nut.)
Danielson Mfg. Co., Danielson, Conn. "Danco."
Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del. "Delsteel."
Division Lead Co., 836 W. Kinzie St., Chicago, Ill. "Divco." (Lead and babbitt.)
Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)
Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.
Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn. "Whale."
G. M. Co. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)
Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Rubber mallet.)
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Greene, Tweed & Co., North Wales, Pa. "Bosa," "Empire." (Plastic.)
Greenfield Tap & die Corp., Sanderson St., Greenfield, Mass. "GTD."
Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn. "HW."
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif. "Tac."
Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y. "Red Nut," "Silver Nut."
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)
Jergans Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)

35 MPH??
60 MPH??

Regardless of the speed that meets your requirements . . .

HOOF GOVERNORS SAVE YOU MONEY!

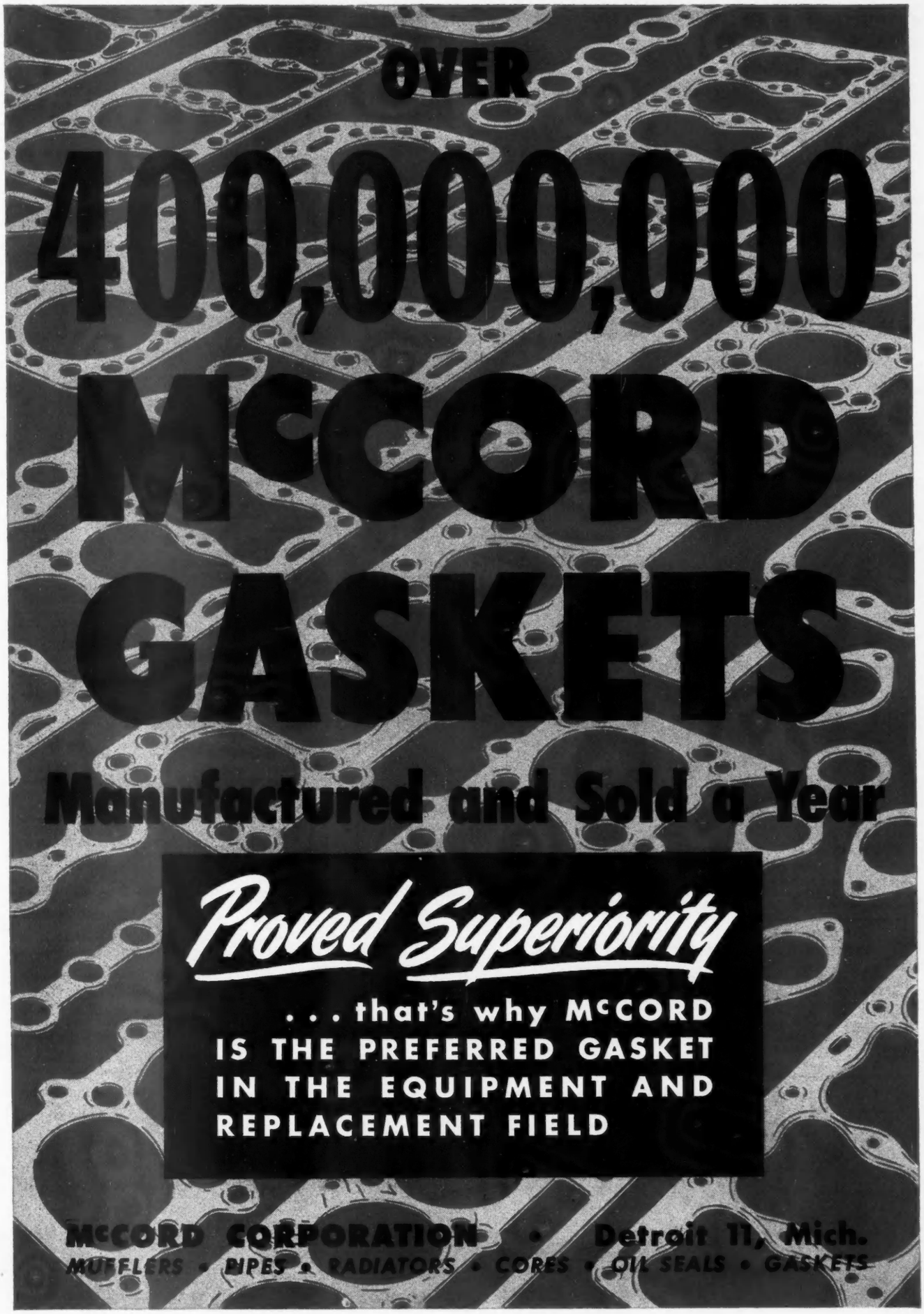
Even high-speed highway Haulers get two definite benefits from Hoof Governors: maximum allowable speed cannot be exceeded AND harmful engine racing in low gears is positively prevented. Savings in maintenance costs repay the small investment in Hoof Governors many times over. Added safety and reduced insurance premiums are just two of the many "bonus" values accruing from Hoof operation.



HOOF *key and seal type* **GOVERNORS**

A Patented, exclusive Hoof feature, this Cantilever Spring means more accurate speed control, simplified construction and longer life!

HOOF PRODUCTS CO.
6543 S. Laramie Ave., Chicago 38, Ill.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IS THE PREFERRED GASKET
IN THE EQUIPMENT AND
REPLACEMENT FIELD
McCORD CORPORATION • Detroit 11, Mich.
MUFFLERS • PIPES • RADIATORS • CORES • OIL SEALS • GASKETS

TOOLS, Hand—cont.

K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kaalot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)
Kal Van Machine Products, Inc.
Kennedy Service Tools Inc., P. O. Box 38, Mogadore, Ohio. (Rubber, fibre, plastic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. "Budnut." (Wheel.)
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)
Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin." (Rubber mallets.)
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Rawhide.)
Matticks Mfg. Co., 4156 E. Pacific Way, Los Angeles 23, Calif. "Turner." (Rubber.)
Mayhew Steel Products, Inc., Shelburne Falls, Mass.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill. "Metco."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Millers Falls Co., Greenfield, Mass. (Brass.)
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Murchey Machine & Tool Co., 12800 Puritan St., Detroit, Mich. (Solid and Adjustable.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
New England Pressed Steel Co., Washington Ave., Natick, Mass. "Nepsco."
New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif. "Nupla."
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "Excel."
Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
Peterson Mfg. Co., De Witt, Neb. "Vise-Grip." (Toggle type.)
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis. "Speedgrip."
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford, Conn.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass. (Insulated.)
Quality Tool Corp., New Wilmington, Pa. "Oldforge."
Reiff & Nester Co., Lykens, Pa.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
Rubbercraft Corp. of Calif., Ltd., 110 E. 17th St., Los Angeles, Calif. (Rubber malleta.)
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Smith & Son, Inc., Seymour, Oakville, Conn. "Snap-Lock." (Sole distributors, John H. Graham & Co., 105 Duane St., New York, N. Y.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point." "Snap-On."
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Stanley Tools, 111 Elm St., New Britain, Conn.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass. "Walden-Worcester."
Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo. "Powerench."
Thorsen Tool Co., 5321 Horton St., Emeryville, Calif.
Toledo Steel Products Co., 2001 Toledo Trust Bldg., Toledo, Ohio.
Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Amory St. (Roxbury), Boston, Mass. "Trimo."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
Union Tool Co., 48 E. River St., Orange, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.
Ushco Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y. "Ushco-Lawson."
Utica Drape Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic.)
Vermont Tap & Die Corp., Main & Grove Sts., Lydonville, Vt.
Vichek Tool Co., 3001 E. 87th St., Cleveland, Ohio.
Walworth Co., 60 E. 42nd St., New York 17, N. Y. "Genuine Stillson," "Walco."
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Whitaker Mfg. Co., 409 S. Greene St., Chicago, Ill.
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (Interchangeable.)

NO MORE CARBON SCRAPING . . .
Cleans water side of cylinder head too!

Nothing Decarbonizes and Cleans CYLINDER HEADS, CARBURETORS, PARTS Like...

U. S. Pat. No. 2,107,288

NEW 60 GALLON SIZE
Gunk Hydro-Seal cylinder head and crankshaft cleaning kit. Large enough to take nearly all standard assemblies. Makes purchase of cleaning tanks unnecessary for many shops.

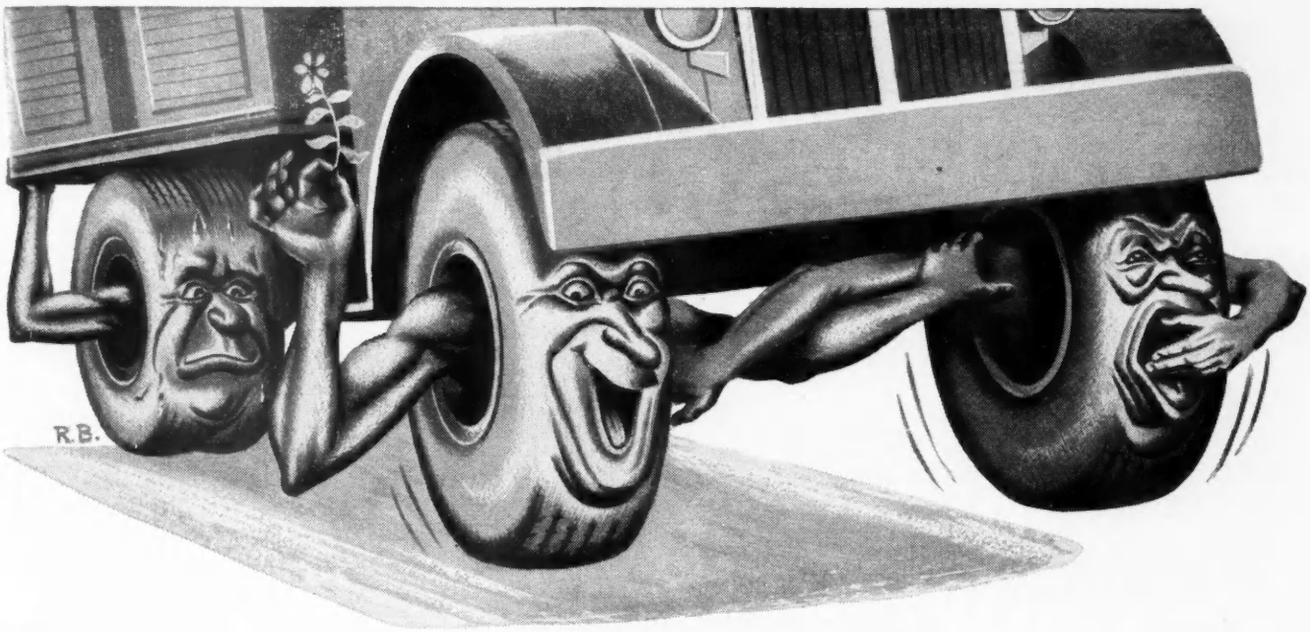
HYDRO-SEAL
GUNK Dunk
$85.00 net
with 50 gallons of Gunk H-S

REFUSE SUBSTITUTES
Without the Genuine GUNK trademark, the product may be a cheap imitation . . . partly diluted, will not afford the long life and corrosive protection given by GUNK. Flatly refuse substitutes!

1. Now! You can clean a cylinder head, crankshaft or block easily and completely *bare metal clean* . . . just as a carburetor comes bright out of a Gunk Hydro-Seal Bench Kit.
2. Normal Service Life 1 year (U. S. Pat. 2,107,288)
3. Works hot or cold . . . Self-Scouring . . . Self-Emulsifying
4. Parts rinse bright automatically in seal
5. Safe cleaner for aluminum base alloys
6. Patented Performance and long life

LIQUID TOOL . . . LABOR SAVER
Cleans cylinder heads of carbon without scraping . . . Cleans water side of cylinder heads of insulating algae, grease, sludge and scale—thus restoring original thermal efficiency built into engine by manufacturer.

SOLD BY BETTER JOBBERS EVERYWHERE
Ship direct from 3 factories "prepaid" if Jobber out of stock.



Put those FRONT axles to work...

Front wheels, too, should carry their full share of the load—the share of the load that means *extra* tonnage . . . extra profits per trip for you.

Saginaw's new hydraulic power steering gear, in most cases, permits you to carry *double the payload* on the front wheels—without increasing truck size . . . or exceeding legal load limits. Saginaw power steering adds greater driving ease and brings increased earnings in the bargain.

You can always count on Saginaw products . . . built of the highest quality materials . . . turned out by the world's largest manufacturer of steering gear equipment . . . and backed by millions of miles of money-saving performance.

Plan now to put those front axles to work! Contact your truck manufacturer today about Saginaw power steering.

IF IT'S EASY TO STEER IT'S A SAGINAW GEAR

with SAGINAW HYDRAULIC STEERING

Saginaw

STEERING GEAR DIVISION

General Motors Corporation, Saginaw, Michigan

SSG PRODUCTS

STEERING GEARS AND LINKAGES • PROPELLER SHAFTS • TRANSMISSION CONTROLS • TURN SIGNALS • DIESEL ENGINE PARTS • BALL BEARING SCREW AND NUT ASSEMBLIES • AUTOMOBILE JACKS

Get the Only . . .
TIRE CHAIN
with
"Twice the BITE"
McKAY
Multi-Grip
CHAINS—

- TWO CASE HARDENED TRACTION BARS PER LINK.
- 312 GRIPPING POINTS PER CHAIN.
- MORE SURFACE CONTACT THAN ANY DESIGN.

For safe, trouble-free winter driving, be sure to get McKay Multi-Grip Tire Chains—for here are chains which give extra grip, extra efficiency, extra protection. And they give you many, many more miles of extra wear.

McKay Multi-Grips are easy to put on too. The exclusive Klip-Lock Fasteners draw chain up tightly, locks securely, unfastens with one hand and never jams or clogs. Ask for McKay Multi-Grips by name.

Easy To Put On—Hard To Wear OUT.

ORDER YOUR McKAY TIRE CHAINS NOW!

THE McKAY COMPANY
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OTHER McKAY PRODUCTS

- McKay Metal-Fil
- McKay-Rod Electrodes
- Mild and Stainless Welding Electrodes
- Industrial and Commercial Chain

TOOLS, Hand—cont.

Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Supersocket."
Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.
Wood & Spencer Co., 1930 E. 61st St., Cleveland 3, Ohio.
Wright Tool & Forge Co., 42 E. State St., Bakerton, Ohio.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn. "Vitalloy."
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hinsdale Mfg. Co., 1724 Walnut St., Chicago 12, Ill.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Proto Tools, 2009 Santa Fe Ave., Los Angeles, Calif. "Proto."
Rovtar Tool-Die Mfg. Co., 2236 S. Wood St., Chicago 8, Ill.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Snap-On," "Blue Point."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Superrench."

TOOLS, Piston Pin Removing and Installing

Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (For Ford cars.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 6, Calif. "Vixen."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Piston Ring Compressing

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich. "A.S.C."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif.
American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "Adco."
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.

Packard does it again!

In 1950, as in previous years, Packard cable was used by the majority* of the winners of the BUS TRANSPORTATION awards!

*14 out of 21

Packard

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TRADE MARK

Packard Electric Division, General Motors Corporation

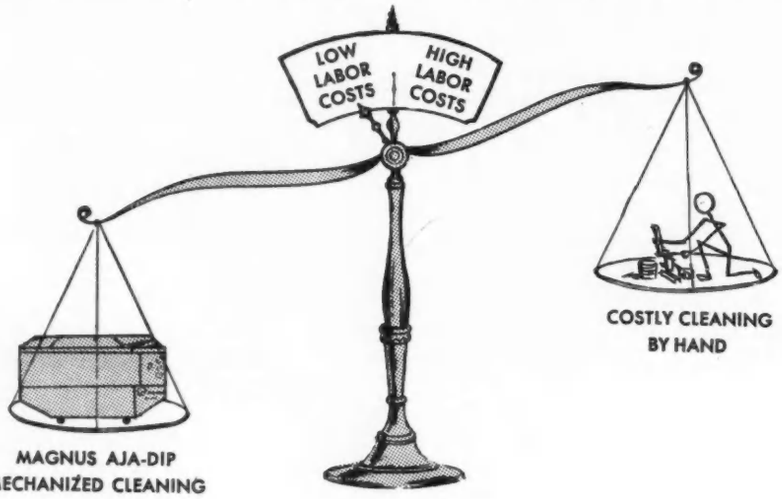
Warren, Ohio

FOREMOST BUILDER OF AUTOMOTIVE AND AVIATION WIRING

TOOLS, Piston Ring Compressing—cont.

Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
K-D Mfg. Co., 526 S. Washington St., Lancaster, Pa.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich. "Master," "Standard."
Miller Co., L. B., 394 State St., Stamford, Conn.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."
Zim Mfg Co., 3037 Carroll Ave., Chicago, Ill.

Mechanized Parts Cleaning Saves Manpower *Today...Tomorrow*



Every time your mechanics clean parts by hand—scrub and brush or steam equipment—you are wasting costly manpower . . . manpower that is becoming increasingly hard to get.

Don't pay high priced mechanics to clean parts . . . let a Magnus Aja-Dip do the cleaning—*mechanically*. When you have a Magnus Aja-Dip in your shop *there's no time wasted*. The dirty parts are loaded in the Aja-Dip, a starting button pressed, and mechanical agitation does the rest while your mechanics do the skilled work for which you pay them.

The money you save with a Magnus Aja-Dip will pay for it in less time than you think!

Whether you service 5 trucks or 500, there's a Magnus mechanized cleaning machine to fit your requirements—from bench type units to Aja-Dips capable of cleaning 10,000 lbs. of dirty parts per batch.

Write for complete information on Mechanized Cleaning.

MAGNUS CHEMICAL CO. • 38 South Ave., Garwood, N. J.
In Canada — Magnus Chemicals, Ltd., Montreal.
Service representatives in principal cities.

Magnus
CLEANERS • EQUIPMENT • METHODS

TOOLS, Piston Ring Groove Cleaning

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich. "A.S.C."
All-Power Mfg Co., 202 Roosevelt Ave., Montebello, Calif.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Perfect Circle Corp., 552 Washington St., Hagerstown, Ind. (Perfect Circle Manulathe.)
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Regrooving & cleaning lathe.)
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Spring Spreading

Mesco Products, Crete, Nebr.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Truth Tool Co., 711 S. Front St., Mankato, Minn. (For Ford cars.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

TOOLS, Thread Restoring

Buckingham Mfg. Co., Inc., 75-77 Travis St., Binghamton, N. Y.

TOOLS, Tire

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Bishman Mfg. Co., Osseo, Minn.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Thor," "Hi-Power."
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass. (Bead breaker.)
Cam Tool Co., 288 21st St., Oakland, Calif.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. "C-T-K."
Cornwell Quality Tools Co., Mogadore, Ohio.
Detroit Surfacing Machine Co., 7433 W. Davison St., Detroit 4, Mich.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. (Tire valve tools.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio. (Hammers.)
Greb Co., 181 Canton St., Stoughton, Mass.
Hennessy Co., Jack P., P. O. Box 22, Audubon Station, New York 32, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hoggson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Pneumatic.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.

Screams 360° WARNING — ALL DIRECTIONS

Shouts THE PROGRESS OF GRIFFIN ENGINEERS

● Here's the lamp that emergency vehicles have been waiting for—a specialized high-intensity warning blinker for fire, police, state and county highway vehicles, ambulances, and utility trucks. 360° special Airport lens (red, amber or blue) is visible all around the horizon, in daylight or darkness. Kit includes complete assembly, high-intensity light source, dual conductor cable, flasher mounted in switch with indicator lamp, mounting pad to seal roof. Model No. 360.

Griffin engineered a special light pattern for this lamp—a perpendicular shaft of one-inch width, high intensity, constant focal point increasing with distance.

Details like this make Griffin the new leader in lamps, make every product a masterpiece in fleet safety lighting design.

It will pay you to standardize with Griffin—the complete fleet line.

THE GRIFFIN LAMP COMPANY, HAMILTON, OHIO

GRIFFIN
AUTOMOTIVE SAFETY LIGHTING

Clearance-and-Marker No. 117
Streamlined, shortened, modernistic—ideal for cabs of new model trucks and buses.

Giant Stop Lamp No. 200
Powerful big 7½" stopper, red or amber lens, black enamel finish, 6-8 volt bulb, 32 c.p.

Wide Visibility Fender Mirror No. 456
Diminishing lens mirror allows operator to see from shoulder to shoulder on road behind. Off-center bolt mounting.

TOOLS, Tire—cont.

Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kirspel Industries, Inc., 300 Main St., Orange, N. J.
Lectrolite Corp., Hickory St., Defiance, Ohio. "Tru-Fit."
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 16, Ill.
Mesco Products, Crete, Nebr. (Trucks.)
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill. "Titanic."
Universal Tire Tool Co., 916 Fifth Ave., N., Birmingham, Ala.
Vichek Tool Co., 3001 E. 87th St., Cleveland 4, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Chain Attaching

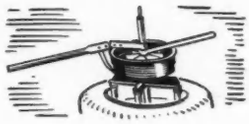
A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Mity Quick Chain-On."
American Chain Div., American Chain & Cable Co., York, Pa.
Hodell Chain Co., 3924 Cooper Ave., Cleveland, Ohio.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

TOOLS, Tire Chain Repair

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Dreadnaught."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Manley Mfg. Div., American Chain Co., E. Princess & Charles Sts., York, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Linkfix," "Linkmaster."
St. Pierre Chain Corp., Frank St., Worcester, Mass. "Giant."

TOOLS, Tire Removing and Replacing

Big Four Industries, Inc., 5938 Carthage Ave., Cincinnati 12, Ohio. "Henderson."
Bishman Mfg. Co., Osseo, Minn.
Branick Mfg. Co., Fargo, N. D.
Coats Loaders & Stackers, Inc., 3001 Fifth Ave., S., Fort Dodge, Iowa. "Iron Tireman."
Gemco Products Co., Murray Rd. & Big Four R. R., Cincinnati 17, Ohio.



Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kerkling-Martin, Inc., San Fernando, Calif.
Lee Engineering Co., 500 Central Ave., Pawtucket, R. I. "Presto." (Hand or hydraulically operated.)
Salsbury Corp., Tiremaster Div., 1161 E. Florence Ave., Los Angeles 1, Calif. "Weaver-Day."
Wats Enterprises, P. O. Box 1117, Miami 38, Fla. "Tirematic."
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Spreading

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Bear Jiffy."
Bishman Mfg. Co., Osseo, Minn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kan.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Inland Rubber Corp., 33 S. Clark St., Chicago 3, Ill.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Klear-Vu," "Visaversa."
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio. (Air, hand and hydraulic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Mesco Products, Crete, Nebr.
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.

TOOLS, Tire Valve Rethreading

Acme Air Appliance Co., 100 Hinsdale St., Glenmore, Brooklyn 7, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.

A perfectly controlled, full-heat flame (2,800 deg. F.)—ready for work at the flick of a lighter.

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PREST-O-LITE Torches, burning PREST-O-LITE Gas, give you heat to spare for soldering, heating, and light brazing. A turn of a needle valve puts the *exact* flame for each job at your finger tips. Indoors or out, PREST-O-LITE Torches burn clean, at top heat the moment you light up. No pumping, priming, or warmup means no waste of fuel between jobs. They're light . . . easy to handle, even in hard-to-get-at places. Ask your jobber to show you how to save time and money with PREST-O-LITE Torches, or write us for further information. The Linde Air Products Company, 30 E. 42nd St., New York 17, N. Y. In Canada: Dominion Oxygen Company, Limited, Toronto.

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The term "Prest-O-Lite" is a registered trade-mark of The Linde Air Products Company, a unit of Union Carbide and Carbon Corporation.

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(Tandem $11.75—taxes, parts extra)

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TOOLS, Tire Valve Rethreading—cont.

Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Rootar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.

TOOLS, Tube Cutting & Flaring

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Aeroquip Corp., Jackson, Mich.
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Flaremaster."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. "Jet-Vac," (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., Powell Ave., Erie, Pa.
Rootar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

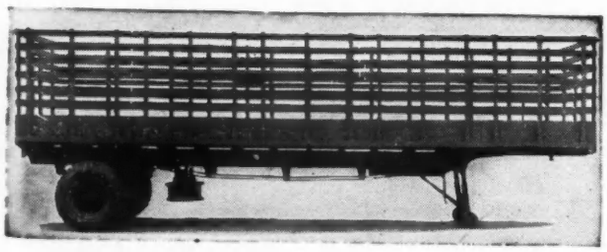
TOOLS, Valve Grinding or Lapping (Hand)

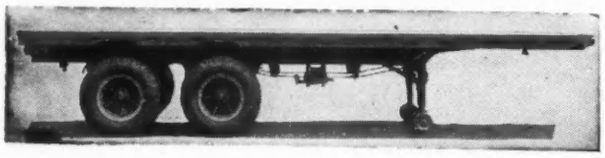
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Carston Mfg. Co., 431 W. 28th St., New York 1, N. Y.
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Guide Cleaning

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
C-B Tool Co., Wabank Rd., Lancaster, Pa. (Hand.)
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Co., L. B., 394 State St., Stamford, Conn.
M-M-A, Inc., 411 Lancaster, Pa. "C-B."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Even Trim." (Brushes, for hand use or with portable drills.)
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. "Ruggles Perfection." (Hand.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. (For use with electric drills.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

TEC TRAILERS





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Single and Tandem Axle. All Sizes and Models

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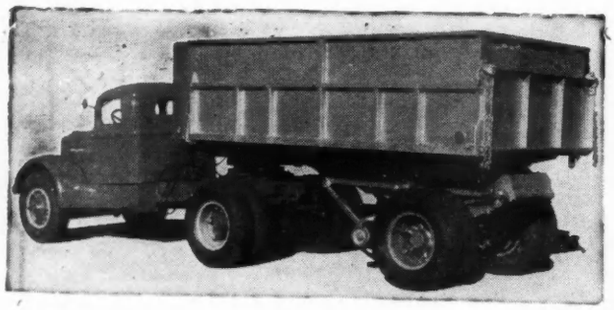
For Bulk Hauling of Coal, Sand, Gravel and Other Materials



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TRUCK ENGINEERING CORP.

Some Distributor Territory Available

TRUCK ENGINEERING CORP.
CLEVELAND 2, OHIO

TOOLS, Valve Guide Installing and Removing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Bishman Mfg. Co., Osseo, Minn.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York. "CP." (Pneu-draulic.)
Cornwell Quality Tools Co., Mogadore, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Slick."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

TOOLS, Valve Lifting and Spring Compressing

All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich. "Easy-Way."
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. "Slick."
Neco Products Co., 2404 Brown Rd., New Castle, Ind. (For Ford cars.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Waterloo Valve Spring Compressor Co., 300 Ansborough Ave., Waterloo, Iowa. "Little Wonder."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "KRW-Zim."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Seat Installing and Removal

Bishman Mfg. Co., Osseo, Minn.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Hand and power.)

TOOLS, Valve Seat Refinishing

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.

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AMERICAN
HIGH LIFT
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P.S. It only needs lubrication once every two thousand hours!

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because it's 1½ to 2 feet shorter than ordinary crane blocks. Often saves adding a boom section. Anti-friction bearings throughout. Sizes 10 to 50 tons; one, two or three sheaves, 18" to 24" diameter.

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COMPANY_____
ADDRESS_____
CITY_____ ZONE____ STATE_____

TOOLS, Valve Seat Refinishing—cont.

Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Vibro-Centric."
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Wire Stripping

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

TORCHES, Hand

Bernz Co., Inc., Otto, Rochester, N. Y.
Precision Engineering & Mfg. Co., Saginaw, Mich.
Pressure Products Corp., 140 N. Dearborn St., Chicago 2, Ill. "Prepo."

TORQUE WRENCHES, See Wrenches, Torque

TOWERS, Repair or Service

(For use in overhead repairs)

Crown Steel Products Co., Orrville, Ohio. (Ladders.)

Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J. "Trenton Utility."
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers-American."
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.

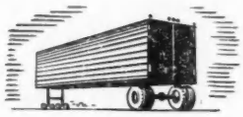
TOWING EQUIPMENT. See Hooks, Tow; also Bars, Towing; also Cranes, Service Truck

TRAILERS, Automobile Transport

La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.
Whitehead & Kales., 58 Haltiner St., River Rouge 18, Mich. "W & K."

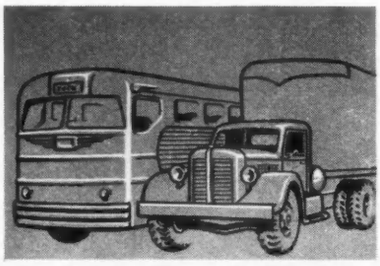
TRAILERS, Commercial

Ace Trailer & Equipment Co., Div. Reliable Automotive Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill. "Clark." (Two-wheel utility.)
American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)
American Trailer & Mfg. Co., 1011 Santa Fe Ave., Los Angeles 21, Cal. (Also one-wheel type.)
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Artisan Products, Inc., 3490 W. 140th St., Cleveland, Ohio. "Craftsman." (Two-wheel utility.)
Available Truck Co., 2501 Elston Ave., Chicago 47, Ill. (Semi and four-wheel.)
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)



Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Beal Pipe & Tank Corp., 1945 N. Columbia Blvd., Portland 3, Ore. (Freight, logging and machinery.)
Birmingham Mfg. Co., 2001 N. 50th Way (P. O. Box 2838), Birmingham, Ala. (Low bed machinery.)
Black Diamond Trailer Co., Euclid Ave., Bristol, Va.
Brown Equipment & Mfg. Co., Mutual Life Bldg., 1740 Broadway, New York 19, N. Y.
Brown Trailers, Inc., Box 54, Spokane 1, Wash. (Aluminum.)
Bunyan Co., Paul, 1602 Cove Ave., La Grande, Oreg. "Paul Bunyan."
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass. "Campbell's Loadmaster," (Two-wheel utility.)
Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)
Chadwick Inc., Seventh St. & Keystone Ave., Darby, Pa. (Also low-hed machinery.)
Commercial Sales Co., Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.
Converto Mfg. Co., Cambridge City, Ind. (Farm, utility, dump, cargo, implement.)
Cook Bros. Equipment Co., 1815 N. Broadway, Los Angeles 31, Calif.
Corbitt Co., Henderson, N. C. (Semi, van and flat.)
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo. (Semi, 4-wheel, pole & machinery.)
Dorsey Trailers, Inc., Elba, Ala. (Van, stake, platform, pole and machinery.)
Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. (Public utility; sole distributors, Graybar Electric Co., Lexington Ave., & 43rd St., New York 17, N. Y.
Easton Car & Construction Co., Easton, Pa. (Off-the-highway, for mines, quarries, etc.)
Edwards Trailer & Body Co., Div. of Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind. (Semi, 4-wheel, dump, etc.)
Elcar Coach, Bourbon, Ind. (Sole distributors, Mid-States Trailer Sales, 831 S. Wabash Ave., Chicago 5, Ill.)

THE TREND IS TOWARD THE ECONOMY OF BUTANE-PROPANE



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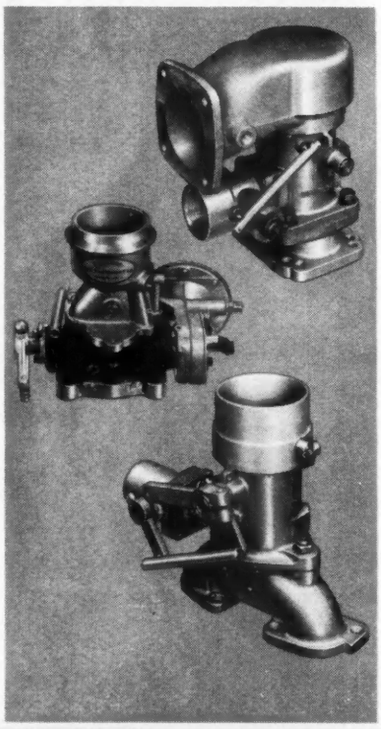

ANY STANDARD TRUCK ENGINE can be equipped with a Century Carburetor to operate economically on liquefied petroleum gas. Century Carburetors are not "adapted" to an engine—they are specially designed and built for each engine application. Holley governor controls are incorporated when needed. All dual throat carburetors have single adjustment.

Oldest Manufacturer of LP-Gas Carburetion

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CARBURETORS
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Specially Designed for Mass Distribution

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1. Solid, large, connecting links speed the flow of current.
2. Double-pour leak-proof seal
3. Stop-spill safety vents
4. Life-anchor posts cast in one piece with separator hold-downs
5. Flex-rubber bushings absorb shock, prevent leakage
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7. Plates securely burned to post straps
8. Spintex rubber separators or finest wood individually candled
9. Perma-set, "craterized" plates
10. Pebble-coated interlocking v-shaped grid bars
11. High tensile strength container
12. High foot rests for plates

Uniformity of quality is characteristic of Globe-Union batteries regardless of which of the 12 Globe-Union factories produce the batteries. Strategically placed local factories insure lowest freight costs and faster service.

TRAILERS, Commercial—cont.

Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C. (Semi, flat, log, lumber and van.)
F.A.B. Mfg. Co., 1249 67th St., Oakland 8, Cal. "Fabco." (Full, semi and log.)
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)
Fontaine Truck Equipment Co., 3827 First Ave., N., Birmingham, Ala. (Bus and low-bed machinery.)
Fruehauf-Carter Div. Fruehauf Trailer Co., 1132 Kansas St., Memphis 2, Tenn.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gibbes Machinery Co., 1029 Wheat St., Columbia, S. C. (Platform and pole.)
Gindy Mfg. Corp., Downingtown, Pa.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio. (Semi and 4-wheel.)
Halsey Machine & Mfg Co., 131 Arrowhead Ave., San Bernardino, Calif. (Vegetable.)
Hanson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio. (Machinery.)
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Pole.)
Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio.
Hyde Corp., 1405 Calhoun St., Fort Worth, Tex.
Jahn Co., C. R., Savanna, Ill. (Low-bed, tilt and pole.)

Kentucky Mfg. Co., Third & K Sts., Louisville 8, Ky.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Kramer Wagon Co., Oil City, Pa. (Utility.)
La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis. (Also machinery.)
Langlois Bros., 717 S. San Pedro St., Los Angeles 14, Calif.
Liggett Spring & Axle Co., Monongahela, Pa. "Wearever." (Utility.)
Love Wagon Co., Durant, Miss. (Two and four wheel farm.)
Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers." (Hydraulic dump; "Powers-American.")
McCulloch Motors Corp., 6101 W. Century Blv., Los Angeles 45, Calif. "Towpac." (One-wheel collapsible.)
McKay Mfg. Co., John A., Dunn, N. C. "McKay Sturdybilt."
Martin Machine Co., South & Tenney Sts., Kewanee, Ill. Heavy duty machinery; sole distributors, Caterpiller Tractor Co., 600 W. Washington St., Peoria 8, Ill.
Mastercraft Trailers, Inc., 1 Factory St., Middletown, Conn., (Two-wheel utility.)
Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B." (Two wheel, tractor and implement.)
Miami Specialties Co., 221 S. Plum St., Troy, Ohio.
Miller Trailers, Inc., 708 3rd St., Bradenton, Fla.
Montgomery Body & Trailer Mfg. Co., Route 37 South, Salem, Ill. (Oil field.)
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Tilting-platform.)
Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Two-wheel utility.) "Carry-All."
Nabors Co., W. C., Mansfield, La.
National Automatic Tool Co., S. Seventh & N Sts., Richmond, Ind. "Natco." (Two-wheel utility.)
Ohio Body Mfg. Co., New London, Ohio. "Cargo Chief." (Semi.)
Olson Mfg. 4000 Warm Springs Ave., Boise, Idaho.
Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa. (Semi.)
Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. (Fire pumping units.)
Page & Page Co., 0605 S. W. Curry St., Portland 1, Ore. (Dual axle logging.)
Pierce Trailer & Equipment Co., 1306 S. E. Ninth Ave., Portland 14, Ore. (Logging, lumber and semi.)
Pointer-Willamette Co., 238 N. E. Oregon St., Portland 14, Ore. (Machinery and highway.)
Pybus Co., E. T., 3 Orondo Ave., Wenatchee, Wash. (Logging.)
Rehberger & Son, Inc., Arthur, 316 Ferry St., Newark 5, N. J. "Tip-Top."
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal. (Also logging.)
Schayer & Badinger, Inc., 728 S. Saratoga St., New Orleans 12, La. (Two or four-wheel.)
Schult Corp., 1800 S. Main St., Elkhart, Ind.
Spencer-Saffard Loadcraft, Inc., Augusta, Kan. "Spencer Trail-Lite." (Semi, pole and four-wheel.)
Stainless Steel Products Co., 1000 Berry Ave., St. Paul 4, Minn.
Steel Products Co., P. O. Box 1007, Savannah, Ga. "Great-Dane."
Strick Co., Whitaker Ave. at Godfrey, Philadelphia 24, Pa.
Superior Trailer Mfg. Corp., 1125 Georgia St., Indianapolis, Ind.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Mass.
Thompson Trailer Corp., P. O. Box 3067, Alexandria, Va.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa. (Semi.)
Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio.
Transport Bodies & Equipment Co., 3939 N. W. St., Helens Rd., Portland 10, Ore. (Also logging.)
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC." (Four-wheel, semi and pole.)
Tyler Equipment Co., P. O. Box 1674, Houston 1, Tex.
United Mfg. Co., 30 E. Interstate St., Bedford, Ohio. (Utility.) "Caravan."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Cal.

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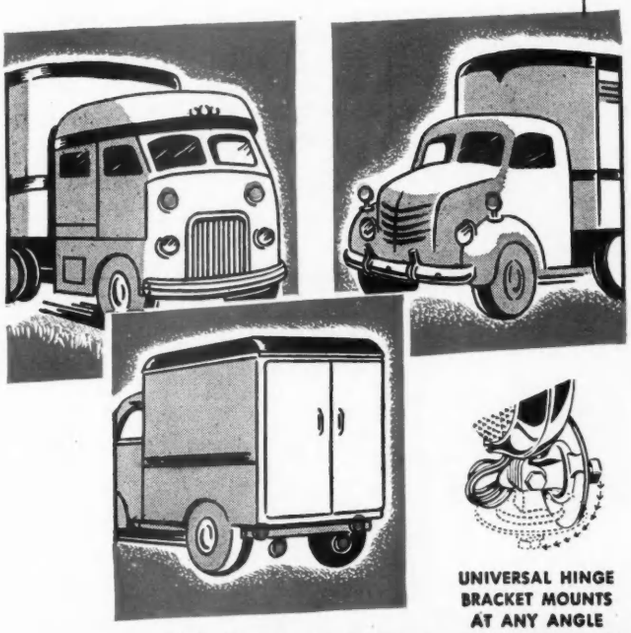
New flashing type of plain lense lamp replaces former arrow indicator as a more brilliant and effective turn signal. Finished in all black baked enamel over durable steel for heavy duty service. Water-proof, dust-proof, vibration-proof and tested at recognized laboratories to meet all legal requirements. Sets consist of four lamps in either combination of hinged or flush mountings, with No. 229-D Flasher enclosed in No. 441 Switch Case and all parts necessary for final installation.

COMPLETE SETS

Universal Hinge and Body Bracket Are DIE CAST



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COMPLETE SETS

No. 425-H — Four Lamps with Universal Hinge Bracket

No. 425-F—Four Lamps, Flush Mounting.

No. 426—Two Lamps with Hinge Bracket, two Lamps for Flush Mounting.

No. 441—Switch with enclosed No. 229-D Flasher.

All lamps are equipped with silver plated reflector.

NOTE: Legal requirements for Class "A" trucks call for amber lenses in front and red lenses for rear.

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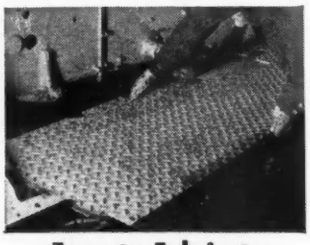

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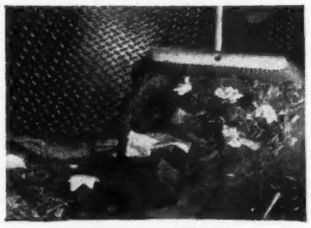

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TRAILERS, Commercial—*cont.*

Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson 2, N. J. "V & W" (Chassis-less.)
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal. (Semi, four, six-wheel and machinery.)
Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and lo-bed.)
Whithead & Kates Co., 58 Haltiner St., River Rouge 18, Mich. "W. & K."
Wiedman Body & Trailerplane Co., 59 Felton St., North Tonawanda, N. Y. "Trailerplanes." (Business display.)
Williamsen Body & Equipment Co., 2048 Washington Blvd., Ogden, Utah. "Wabco."
Winter-Weiss Co., 2201 Blake St., Denver 2, Colo. (Low bed machinery and farm.)

TRANMISSION JACKS, See Jacks, Transmission

TRANSMISSION STANDS, See Stands, Engine and Transmission Repair

TRANSMISSIONS

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Clark Equipment Co., Jackson, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Gear Div., Borg-Warner Corp., 12345 Kercheval Ave., Detroit 14, Mich.
Detroit Transmission Div., General Motors Corp., 5140 Riopelle St., Detroit 11, Mich. "HydraMatic."
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich. (Truck.)
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe" (Bus and truck.)
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Also automatic.)

TRANSMISSIONS, Auxiliary

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe."
Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Overdrive, for Chevrolet cars.)
Warford Corp., 44 Whitehall St., New York, N. Y. (For Ford and Chevrolet trucks.)
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)
Watson Co., H. S., 1145 Harrison St., San Francisco 3, Cal. "Watson-Brown-Lipe."

TRUCKS, Diesel

American-Coleman Co., Omaha, Neb.
Autocar Co., Lancaster Ave., Ardmore, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Brown Equipment & Mfg. Co., Mutual Life Bldg., 1740 Broadway, New York 19, N. Y.
Condor Motors, Inc., 221 N. La Salle St., Chicago, Ill.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif.
Corbitt Co., Henderson, N. C.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.
Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Eisenhauer Mfg. Co., 329 Center St., Van Vert, Ohio. (Twin Engine Trucks.)
Euclid Road Machinery Co., 1361 Chardon Rd., Cleveland 17, Ohio. (Dump, for off-the-highway service.)
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Freightliner Corp., 1925 N.W. Quimby St., Portland, Ore.
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Marmon-Herrington Co., 1511 W. Washington, Indianapolis 7, Ind.
Oshkosh Motor Truck, Inc., 2302 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. "Dumptor." (For off-the-highway service.)

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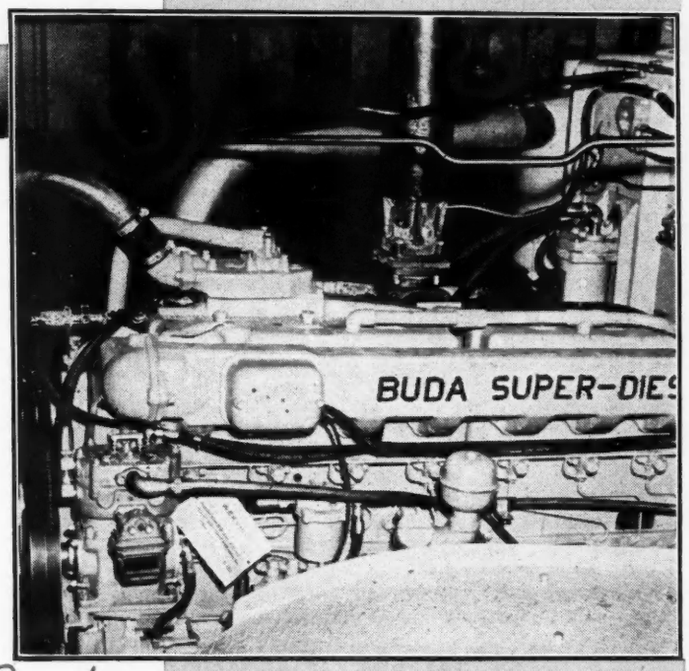

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TRUCKS, Diesel—cont.

Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Sterling Motor Truck Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

TRUCKS, Fire Apparatus

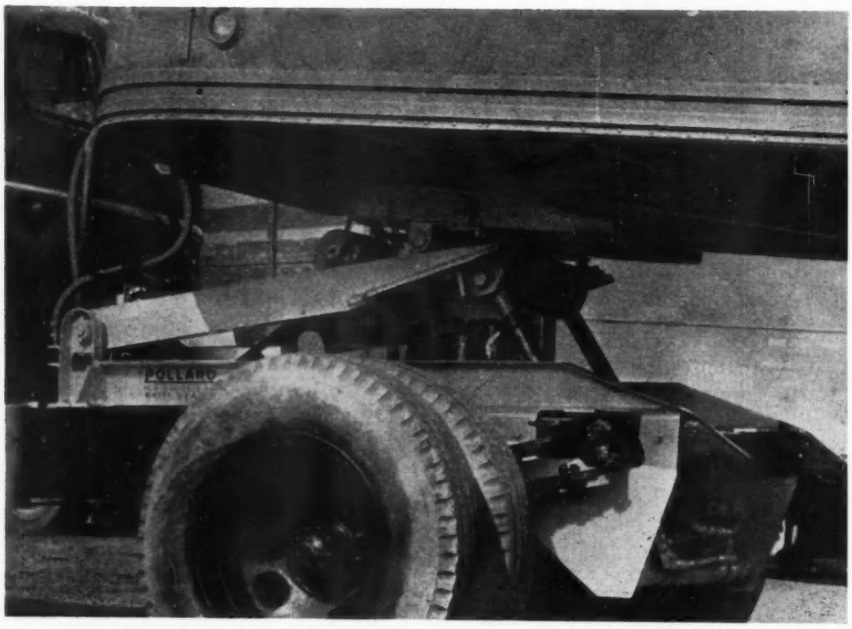
American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
McCann Corp., P. O. Box 1946, Portland, Me.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.

TRUCKS (Gasoline)

American-Coleman Co., Omaha, Neb.
American Motors, Inc., 250 Park Ave., New York 17, N. Y. "Delcar."
Autocar Co., Lancaster Ave., Ardmore, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Brockway Motor Co., 106 Central Ave., Cortland, N. Y.
Brown Equipment & Mfg. Co., Mutual Life Bldg., 1740 Broadway, New York 19, N. Y.
Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.
Cook Bros. Equipment Co., 1815 N. Broadway, Los Angeles 31, Calif.
Corbitt Co., Henderson, N. C.
Crosley Motors, Inc., 2530 Spring Grove Ave., Cincinnati 14, Ohio.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.
Diamond T. Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Divco Corp., 22000 Hoover Rd., Detroit 5, Mich. (Frequent stop.)
Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.
Duplex Truck Co., Hazel St., Lansing 4, Mich.
Esco Motor Co., c/o Exhibitor's Service Co., W. General Robinson St., N. S., Pittsburgh, Pa.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y. (Frequent stop.)
Linn Mfg. Co., Lake St., Morris, N. Y. (Half-track for off-the-highway service.)
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Marmon-Herrington Co., W. Washington at Harding St., Indianapolis 7, Ind.
Milford Crane & Machine Co., 841 63rd St., Brooklyn 20, N. Y. (4-axle crane truck and special purpose.)
Oshkosh Motor Truck, Inc., 2302 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. "Dumptor." (For off-the-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Spangler Engrg. & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
Sterling Motor Truck Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Conversions.)
Twin Coach Co., Kent, Ohio. "Fageol Super Freighter."
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Willys-Overland Motors, Inc., Wolcott Blvd., Toledo 1, Ohio. (Also jeeps.)

TRUCKS, Hand

Aerol Co., 2820 Ontario St., Burbank, Calif.
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill. "Clark."
American Pulley Co., 4200 Wissahickon Ave., Philadelphia 29, Pa.
Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Armstrong Truck & Caster Div. of North Wales Foundry Co., North Wales, Pa.
Bishman Mfg. Co., Osseo, Minn. "Start Cart." (Battery.)



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TRUCKS, Hand—cont.

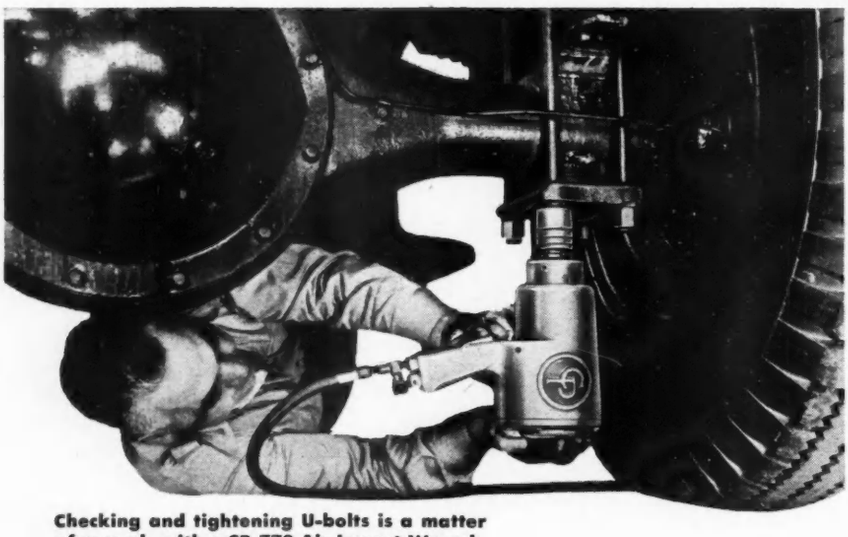
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Cam Tool Co., 288 21 St., Oakland, Calif.
Chatillon & Sons, John, 85 Cliff St., New York 7, N. Y.
Clark Co., Geo. P., 35 Canal St., Windsor Locks, Conn.
Colson Corp., Elyria, Ohio.
Continental-Diamond Fibre Co., Newark 10, Del. "Diamond." (Fibre.)
Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
Electric Wheel Co., Quincy, Ill. "EWC."
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio.
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Fairbanks Co., 393 Lafayette St., New York 3, N. Y.
Hamilton Caster & Mfg. Co., 1637 Dixie Highway, Hamilton, Ohio. "Morrison."
Handees Co., Box 860, Bloomington, Ill.
Heller Caster Co., 1220 W. Fort St., Detroit 26, Mich.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Illinois Iron & Bolt Co., 10 Main St., Carpentersville, Ill. "Hercules."
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis. "Dumptor."
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Station, Boston, Mass. "Floor-Master."
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. "MHS."
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
National Store Specialty Co., Bareville, Pa.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Rapids-Standard Co., Rapistan Bldg., Grand Rapids 2, Mich. "Handy-Andy," "Warehouser," "Wheel-Ezy."
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio.
Saginaw Products Corp., 68 Williamson St., Saginaw, Mich.
Service Caster & Truck Corp., Albion, Mich.
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Thomas Truck & Caster Co., 1021 Mississippi River, Keokuk, Iowa. "Jak-Tung," "Thomas."
West Bend Equipment Corp., 216 S. Water St., West Bend, Wis. "Spring Bearing."

TRUCKS, Lift (Electrically Operated)

Atlas Car & Mfg. Co., 1130 Ivanhoe Rd., Cleveland, Ohio.
Automatic Transportation Co., Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago, Ill. "Skylift."
Baker Industrial Truck Div. of Baker-Raulang Co., 1211 80th St., Cleveland 2, Ohio. (Electric or gas-electric.)
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Elec-Carloader," "Clark Elec-Clipper," "Clark Elec-Trucloader," "Clark Elec-Utilitruc."
Crescent Truck Co., 1035 Willow St., Lebanon, Pa.
Easton Car & Construction Co., Easton, Pa.
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. "Hi-Lo." (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Station, Boston, Mass.
Lyons-Raymond Corp., Greene, N. Y. "Space Maker."
Market Forge Co., 25 Garvey St., Everett, Mass. "Load-Mobile."
Mercury Mfg. Co., 4044 S. Halstead St., Chicago 9, Ill.
Mobilift Corp., 835 S.E. Main St., Portland 14, Ore.
Moto-Truc Co., 1953 E. 59th St., Cleveland, Ohio.
Revolvator Co., U. S. Route 1 at 86th St., North Bergen, N. J.
Service Caster & Truck Corp., Albion, Mich.
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
Wright-Hubbard Industrial Electric Truck Co., Pleasant St., Phelps, N. Y.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.

TRUCKS, Lift (Gasoline Powered)

Baker Industrial Truck Div. of Baker-Raulang Co., 1211 W. 80th St., Cleveland 2, Ohio. (Also gas-electric.)
Buda Co., Harvey, Ill.
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Carloader," "Clark Clipper," "Clark Trucloader," "Clark Utilitruc," "Clark Yardlift."
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Station, Boston, Mass. "Standrive."
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland 7, Calif.
Ross Carrier Co., Second & Miller Sts., Benton Harbor, Mich. (Also gas-electric straddle.)
Service Caster & Truck Corp., Albion, Mich. "Motowlifts."
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y. "Lift-O-Krane."
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.



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CP Air Impact Wrenches are the only impact wrenches with detachable angle heads for close quarter work.

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of any nut-running job

The toughest nuts—even in the most awkward spots—are handled with a CP Controllable Air Impact Wrench. And there's a CP air wrench for every automotive job, from driving screws to tightening spring U-bolt nuts on the heaviest trucks and running nuts on Budd wheels.

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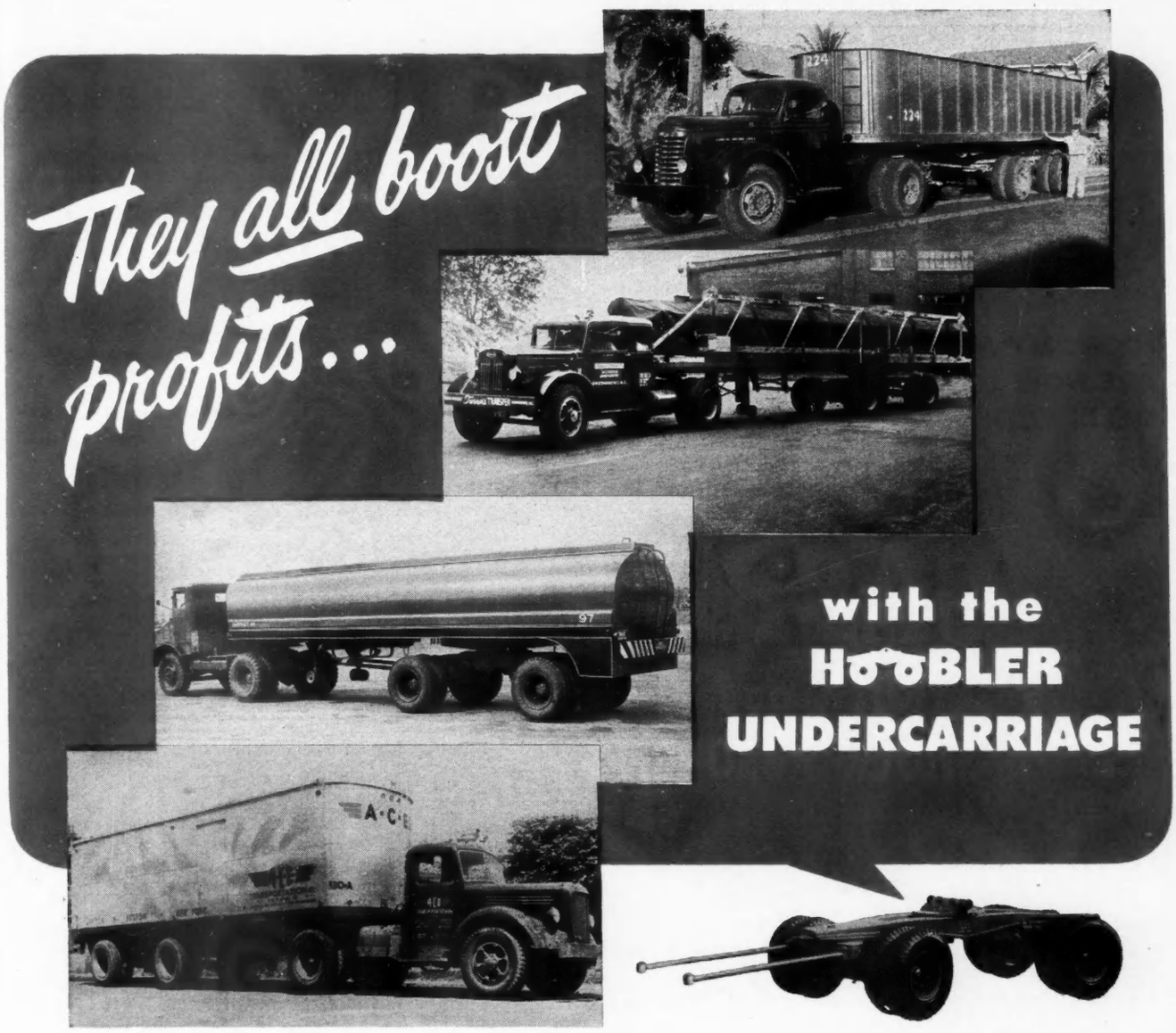
AIR IMPACT WRENCHES • AIR COMPRESSORS • PNEU-DRAULIC PUMPS



WHETHER you operate tankers, high-sides, vans or flat tops (28 feet and over), you can reduce operating costs and increase trucking profits with the Hoobler Undercarriage.

HERE'S WHY

The Hoobler Undercarriage allows the trailer to ease around the tightest corners or travel the straightaways, with practically no scuffing of tires.

"Outrigger" action provides greater stability on curves. Flexible, multiple support absorbs practically all road bumps. Minimum load shifting, loads ride safer.

Highly important, Hoobler 9-foot axle spacing generally permits greater payloads.

Simple in design and construction, quickly inspected, easily serviced, the Hoobler Undercarriage can help *you* make savings every mile, every day, just as it does for users across the country.

For complete information, write The Union Metal Manufacturing Company, Canton 5, O.

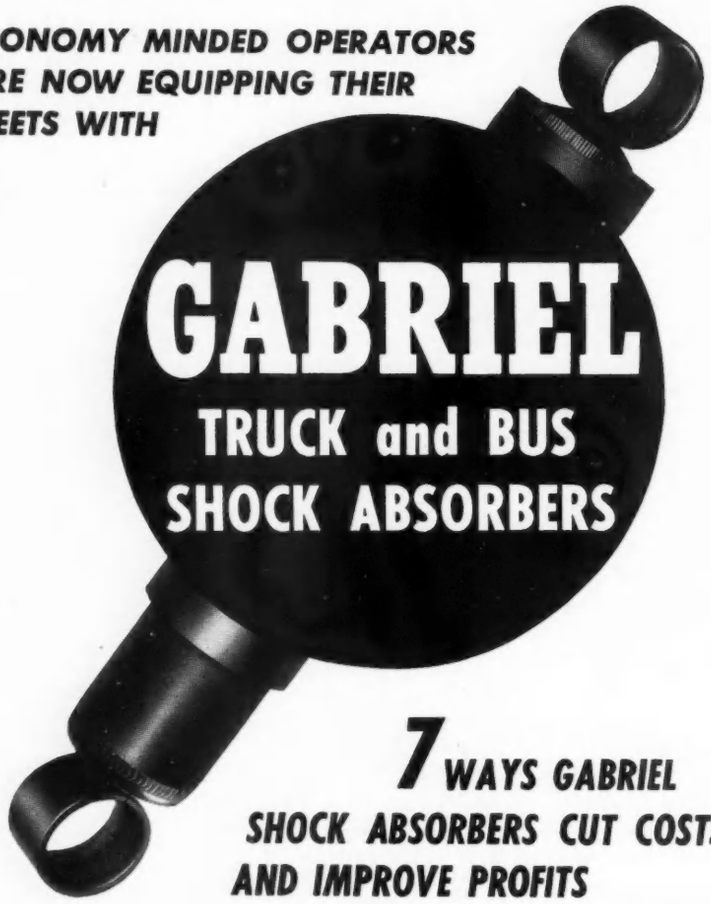
UNION METAL

DESIGNERS AND PRODUCERS OF STEEL PRODUCTS SINCE 1906

Builder of The Hoobler Undercarriage

No other single part affects so many phases of FLEET ECONOMY

ECONOMY MINDED OPERATORS ARE NOW EQUIPPING THEIR FLEETS WITH



GABRIEL

TRUCK and BUS SHOCK ABSORBERS

7 WAYS GABRIEL SHOCK ABSORBERS CUT COSTS AND IMPROVE PROFITS

1 TIRES. Shock absorbers prevent wheel bounce that buffs off rubber. They reduce side-sway scuff by controlling rolling and swaying.

2 BODY. By absorbing shock and chassis weave, Gabriels prevent rattles, loose joints and other body deterioration.

3 SPRINGS. Spring breakage is reduced by shock absorbers. Compression and rebound is controlled under all road and load conditions.

4 MOTOR. Expensive motor maintenance caused by uncontrolled road shock is eliminated.

5 FRAME. Damaged or broken frame members are reduced by absorbing hammer-like road shock with Gabriels.

6 DRIVER & PASSENGERS. Easier truck handling reduces driver fatigue, speeding deliveries and reducing accidents.

7 CARGO. Fragile cargo is protected from road jolts and jars by installing Gabriel shock absorbers.

Write today for catalog showing complete bracket installations

THE GABRIEL COMPANY

1523 EAST 45th STREET
CLEVELAND 3, OHIO

TRUCK LOADERS (ELEVATING TAILGATE), See Loaders, Truck (Elevating Tailgate)

TRUCKS, Rental (Nationwide)

Hertz Driv-Ur-Self System, 218 S. Wabash Ave., Chicago 4, Ill.
National Truck Leasing Systems, 23 E. Jackson Blvd., Chicago 4, Ill.

TRUCK TANKS, See Tanks, Trailer and Truck Body

TUBE FITTINGS

Aeroquip Corp., Jackson, Mich. (Self sealing couplings.)
Aircraft Fitting Co., 1400 E. 30th St., Cleveland 14, Ohio.
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

TUBES, Inner

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Carlisle Tire & Rubber Div., Carlisle Corp., College & C St., Carlisle, Pa.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio. "Dayton," "Thorobred."
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. "Life Protector."
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Kelly-Springfield Tire Co., Cumberland, Md.
Lake Shore Tire & Rubber Co., Des Moines, Iowa.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Mansfield Tire & Rubber Co., Newman St., Mansfield, Ohio. "Century," "Mansfield," "Richland," "United."
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Pennsylvania Rubber Co., P. O. Box 377, Mansfield, Ohio.
Polson Rubber Co., Garrettsville, Ohio.
Robbins Tire & Rubber Co., Tuscumbia, Ala.
Seiberling Rubber Co., Akron 9, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.
Waber Co., 1076 W. 76th St., Chicago 20, Ill.

TUBING, Brass and Copper

American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda."
Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Chase Brass and Copper Co., 236 Grand St., Waterbury 91, Conn.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Copper.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md. (Copper.)
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)
Linderne Tube Co., 1500 E. 219th St., Cleveland 17, Ohio.
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich. "Streamline."
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
National Formetal Div. Federal-Mogul Corp., 6540 Metta Ave., Cleveland 14, Ohio. (Furnished to length desired.)
Penn Brass & Copper Co., Powell Ave., Erie, Pa. "Superior."

STOP ACCIDENTS GO SAFELY... and on Time!

PREVENT SKIDS

MAINTAIN SCHEDULES...

ELSTON ROAD SANDERS

Widely used, highly praised by thousands of fleet owners. Provides instant traction on icy roads, curves, grades. Dash-mounted electric control—always ready. Built for years of rugged service. Reduces tieups and accidents— steps up road time. Foolproof, dependable, easy to install. Non-clogging—sealed against moisture. Protect lives, cargoes, delivery schedules with fleet-proved Elston Sanders! Write for free descriptive folder showing how Elston Sanders pay!

- √ Positive Skid Control
- √ Easy to Install, Service
- √ Saves Trucks and Tires
- √ Affects Insurance Costs
- √ Protects Delivery Schedules
- √ Road-Tested 16 Years

BIG NEWS...
For passenger car and taxi cab MARKETS

HIGHWAY SAFETY SKID-MASTER

NOW AVAILABLE WITH ADAPTER KITS FOR MOST EVERY MAKE AND MODEL AUTOMOBILE AND TAXI CAB

INSTALLS IN TRUNK

Profit Potential Unlimited! Sell, Install and Service SKIDMASTER, greatest highway safety since four wheel brakes. Instant traction at the touch of the dash switch. Gives cars up to 40% more braking power on slippery streets and roads. Build repeat sales with non-clogging, non freezing SAFETY-GRIT.

IT PAYS to be a SKID-MASTER Dealer
Write for Complete story TODAY!

HIGHWAY SAFETY APPLIANCES, INC.

1381 MARSHALL AVENUE • ST. PAUL 4, MINNESOTA

HIGHWAY SAFETY PRODUCTS include Truck, Bus, Rail and Passenger Car Sanders

TUBING, Brass and Copper—*cont.*

Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y. (Copper.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Revere Copper and Brass Inc., 230 Park Ave., New York 17, N. Y.
Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)
United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.
Wells & Co., A. H., E. Aurora St., Waterbury, Conn.
Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich.

TUBING, Flexible Metallic

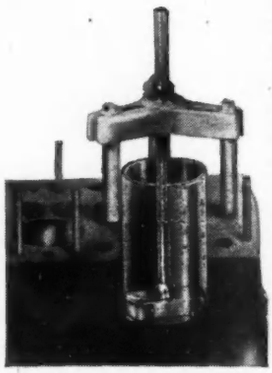
Almond Mfg. Co., T. R., 100 Maple Ave., Ashburnham, Mass.
American Metal Hose Branch of American Brass Co., 698 S. Main St., Waterbury 20, Conn.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Flex," "Rex-Tube," "Rex-Weld."
Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Ettco."
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
International Metal Hose Co., Div. of Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio. "Interlox."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
National Electric Products Corp., 13th Floor, Chamber of Commerce Bldg., Pittsburgh 19, Pa. "Auto-Steelflex."
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflexweld."
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill. "Perma-Loc."
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.

AGAIN- National GARAGE TOOLS LEADS THE FIELD

Slick as a duck's tail!

PULLING CYLINDER SLEEVES WITH *THE NEW*

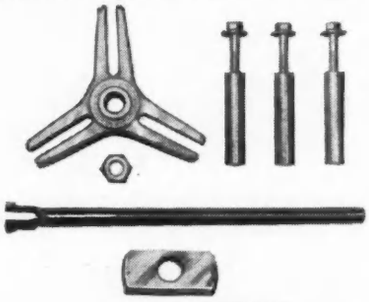
National GARAGE TOOLS UNIVERSAL SLEEVE REMOVER



The New National cylinder sleeve removing tool for both wet and dry sleeves is universal for most trucks and tractors. A three-way body on adjustable legs holds a long threaded shaft. The shaft has a swivel end fitting to which the sleeve adaptor plate is attached. The swivel insures a direct steady pull and friction is minimized by a recessed thrust bearing under the jam nut. 22 sizes in adaptors are available. One man, in a matter of minutes, can remove a cylinder as slick as a duck's tail!

Adaptors Available in Following Diameters

3"	3 ½"	4 ½"
3 ⅛"	3 ⅝"	4 ⅝"
3 ¼"	3 ¾"	4 ¾"
3 19/64"	3 ⅞"	4 ⅞"
3 5/16"	4"	5"
3 ⅜"	4 ⅛"	5 ¼"
3 7/16"	4 ¼"	5 ¾"
	4 ⅜"	



TOUGH TOOLS FOR TOUGH JOBS

NATIONAL MACHINE AND TOOL CO., INC. JACKSON, MICHIGAN U. S. A.

TUBING, Loom

Anchor Webbing Co., 1005 Main St., Pawtucket, R. I.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)
Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Ettco."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Packard Electric Div., General Motors Corp., Warren, Ohio.

TUBING, Oil and Gasoline Line

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Copper, with fittings, for Ford and Chevrolet cars.)
American Metal Hose, Branch of American Brass Co., 698 S. Main St., Waterbury 20, Conn. (Flexible, with fittings.)
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible.)
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. (Flexible.)
Avon Tube Div. of Higbie Mfg. Co., Charles St., Rochester, Mich.
Bundy Tubing Co., 8109 Jefferson Ave., Detroit 13, Mich. (Solid.)
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rexweld." (Flexible.)
Coronet Parts Mfg. Co., 951 Sheperd Ave., Brooklyn, N. Y. (Flexible.)
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Flexible.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Frost Co., 6523 14th Ave., Kenosha, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Flexible.)
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Flex-Gas." (Flexible non-metallic, with fittings.)
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Flexible.)
Penn Brass & Copper Co., Powell Ave., Erie, Pa. "Superior." (Solid.)
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Flexible.)
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J. (Flexible, with fittings.)
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J. (Flexible.)
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio. (Flexible non-metallic.)
Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich. (Solid.)

TUBING, Windshield Wiper

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio. "Universal."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Crown Products Co., P. O. Box 1046, Omaha, Neb.

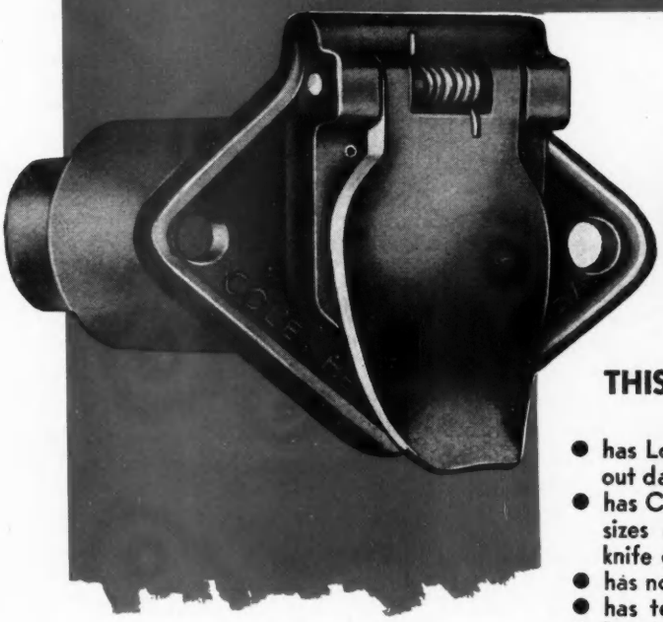
THE RECOGNIZED AND ACCEPTED LEADER IN THE TRAILER CONNECTOR FIELD

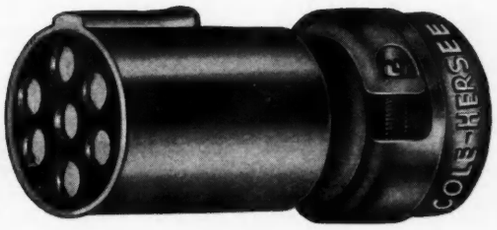
COLE-HERSEE

PROUDLY INTRODUCES THE

"FLAP-LOCK" TRAILER CONNECTOR, "ATA" STANDARDIZED 7 POINT TRAILER CONNECTOR AND NEW "GRIP-PLUGS."

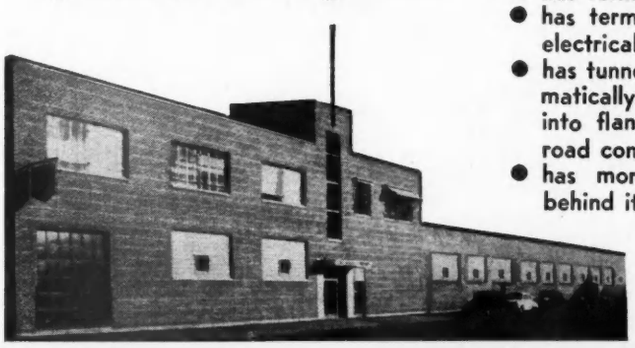
DESIGNED TO EXACT A.T.A. SPECIFICATIONS.
ENGINEERED AND MANUFACTURED BY COLE-HERSEE—
A CONCERN WHICH OCCUPIES AN ENVIABLE POSITION FOR QUALITY, RELIABILITY, PERFORMANCE AND SERVICE IN THE MANUFACTURE OF ELECTRICAL EQUIPMENT FOR THE MOTOR INDUSTRY.





THIS NEW HEAVY DUTY COLE-HERSEE TRAILER CONNECTOR

- has Locking Flap with automatic release that lets go without damaging flap if trucker fails to uncouple.
- has Collar type Wire Clamp — grips wide range of cable sizes and has the exclusive Cole-Hersee split, tapered knife gripping strain relief.
- has non-destructible and non-corrosive plug.
- has terminals in both plug and socket color coded.
- has terminals made of special bronze alloy for perfect electrical connection — minimizes voltage drop.
- has tunnel shaped guide between cover and socket automatically pre-aligns plug for easy one-handed assembly into flange socket under the most difficult terminal or road conditions.
- has more than 40 years experience and reputation behind it.



YOU CAN RELY ON COLE-HERSEE
A NAME BUILT ON QUALITY

CONSISTENTLY BETTER PRODUCTS FOR THE AUTOMOTIVE INDUSTRY

COLE HERSEE CO. 20 OLD COLONY AVE. BOSTON 27, MASS.

TUBING, Windshield Wiper—cont.

Dallas Mfg. & Sales Co., Box 7181 Dallas, Tex. "Guard-A."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Par Mfg. Co., 3765 93rd St., Jackson Heights, L. I., N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Equip. Sales Div., 620 Fisher Bldg., Detroit 2, Mich. "R/M."
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Warehouse Distributors Co., 2731 N. 6th St., Philadelphia 33, Pa. "Sure-Rite."

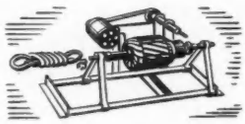
TUNE-UP EQUIPMENT, See Analyzers

TUNE-UP OIL, See Oils, Upper Cylinder

UNDERCOATINGS for Chassis and Body

Anderson-Prichard Oil Corp., 1000 Apco Tower Oklahoma City 2, Okla. "Apco-Cote," "Apcoseal."
Davison Chemical Corp., 20 Hopkins Place, Baltimore 3, Md. "Fendix."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. (Underbody.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio. (Underbody.)
Flexrock Co., Packing Div., 36th St., Philadelphia, Pa.
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Insul-Mastic Corp. of America, 1144 Oliver Bldg., Pittsburgh 22, Pa. "Karkote."
Keystone Asphalt Products Co., 43 E. Ohio St., Chicago 11, Ill. "Kapco." (Under fender.)
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark. "Nokorode." (Underbody.)
Minnesota Mining & Mfg. Co., Adhesive & Coatings Div., 411 Piquette Ave., Detroit 2, Mich. "Underseal." (Underbody.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mortell Co., J. W., 550 N. Hobbie Ave., Kankakee, Ill. "Insulmat," "Mortex."
National Automotive Fibres, Inc., 19925 Hoover Ave., Detroit 5, Mich.
Nox-Rust Chemical Co., 2428 S. Halsted St., Chicago 8, Ill. "Nox-Sound."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.
Pioneer Latex & Chemical Co., Lincoln Blvd., Middlesex, N. J. "Placco." (Underbody.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich. "Clair-Coat." (Underbody.)
Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.
Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill. "Witcote."

UNDERCUTTERS, Mica



Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Green Engineering Co., W. S., 212 W. St. Paul Ave., Waukesha, Wis. "Trucut."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. (Portable electric.)
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Lempco Products, Inc., 5490 Dunham Road, Bedford, Ohio.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life."
Page Slotting Saw Co., 1836 Lawrence Ave., Toledo 6, Ohio.
Red Devil Tools, Coit St., Irvington 11, N. J.
Rite Tool, Inc., 31 N. Seventh St., Fall River, Mass.
Weidenhoff, Inc., Joseph, 205 W. Wacker Drive, Chicago 6, Ill.
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut."

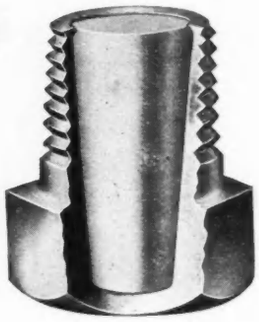
UNIFORMS, See Fabrics, Uniform

UNIVERSAL JOINTS

(See also Shafts, Propeller)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland 3, Ohio.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 6, Ill.
Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix-Weiss."
Blood Brothers Machine Co., Div. Standard Steel Spring Co., Allegan, Mich.
Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill. "Borg-Warner."
Cleveland Steel Products Corp., 7306 Madison Ave., Cleveland 2, Ohio.
Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich. "Rzeppa."
Gray & Prior Machine Co., 614 Windsor St., Hartford, Conn. "Universal." (For power take-off application.)
Hercules Service Parts Corp., 15476 James Couzens Highway, Detroit 21, Mich.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.

INSIGNIFICANT IN APPEARANCE

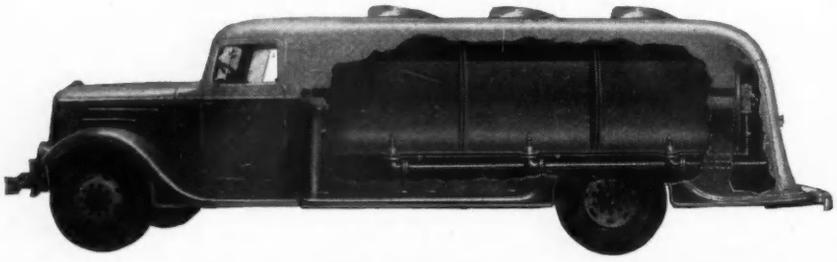


IMPORTANT IN SERVICE

Shown above is a greatly enlarged section of the S. & J. fusible plug. Actually, it isn't as large as the end of your little finger. It is inserted into tees in the hydraulic lines which open and close the S. & J. Hydraulic Internal Safety Valves which so many of the principal petroleum marketers use inside their truck tank compartments for maximum safety.

The purpose of these fusible plugs is to release the hydraulic pressure and close any valves which may be open and discharging liquid, should fire occur during unloading operations. With no more than the heat generated from a single match, the fusible element melts and releases the hydraulic pressure which instantly closes any open valves which may be feeding fuel to the flames. No need for anyone to approach the truck and try to turn off valves by hand. It's all done automatically and quickly.

In case of a tossed cigarette or a spark at the wrong time, you'll be glad if your truck tanks are protected by the S. & J. Hydraulic Internal Valve Safety System.



Shand and Jurs Co. 917 CARLETON STREET · BERKELEY · CALIFORNIA

NEW YORK 296 Madison Ave · CHICAGO 332 So. Michigan Ave · HOUSTON 810 M & M Bldg. · TULSA 310 Thompson Bldg. · LOS ANGELES 714 W. Olympic Blvd · SEATTLE 3000 Western Ave

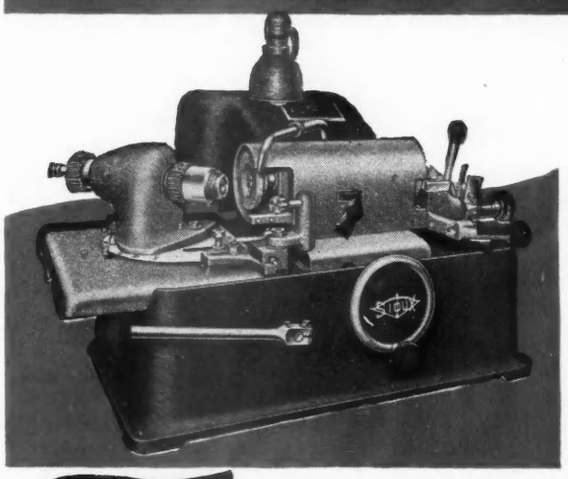
MONTREAL 360 Notre Dame St · VANCOUVER 550 Beatty St · DARLINGTON England

SPEED — is Essential
TIME — is Important
PROFITS — Indispensable

You get these and more by equipping for complete Valve Servicing jobs with these SIOUX units

SIOUX Valve Cleaner

A fast, easy method of cleaning dirty valves. Removes carbon and scale quickly—thoroughly. For valves up to 2½" diameter and ½" stem. Comes complete with air gauge cabinet and 5 lbs. abrasives. Operates on 120 lbs. constant air pressure. Comes with or without cabinet.



SIOUX WET VALVE FACE GRINDING MACHINE

"More Dollar Value Than Ever Before"

Eliminates heat and distortion. Produces finest finish and factory precision. Wet grinds valves, valve ends, tappets and rocker arms. It's years ahead of anything on the market.

SIOUX PERFECTED DUAL ACTION Valve Seat Grinder

with Ball Bearing Holder

Precision work in fast time by the almost unbelievable speed of this valve seat grinder. Perfected dual action provides controlled vibration for grinding accuracy and dispersion of cuttings. Uniform finish is assured.

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Flexible for
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LONG SERVICE

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Morse Chain Co. (Div. of Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. "Morflex."
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
Neapco Products, Inc., Pottstown, Pa.
New Process Gear Co., 500 Plum St., Syracuse, N. Y. "Tracta."
Parts Mfg. Co., 311 W. 66th St., N. Y. 23, N. Y. "Parco."
Pick Mfg. Co., West Bend, Wis.
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.
Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer."
Standard Steel Spring Co., Coraopolis, Pa.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 445 State St., Binghamton, N. Y.
Torque Mfg. Co., 5239 Tillman Ave., Detroit 8, Mich. "Teddy Torque."
Universal Products Co., 6455 Kingsley Ave., Dearborn, Mich. "Detroit."
Williams Engineering Corp., 224 Park Ave., Baltimore, Md.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

UPPER CYLINDER LUBRICANTS. See Oil. Upper Cylinder

VALVE CLEANING TOOLS, See Tools, Valve Guide Cleaning

VALVE GRINDING COMPOUND, See Compounds, Valve Grinding

VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping

VALVE GUIDES, See Guides, Valve

VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing

VALVE LIFTERS, See Tools, Valve Lifting and Spring Compressing
VALVE REFACERS, See Refacers, Valve

VALVE SEAT GRINDERS, See Grinders, Valve Seat

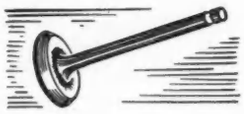
VALVE SEAT INSTALLING, See Tools, Valve Seat Installing

VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring

VALVES, Air Tank Drain

Brunner Mfg. Vo., 1821 Broad St., Utica 1, N. Y.
Fleet Operators Service Laboratory, Main P. O. Box 117, Dearborn, Mich. (Automatic.)
Master Equipment Corp., Dayton, Ohio.
National Pneumatic Co., Inc., Graybar Bldg., N. Y., N. Y. (Automatic)
Quincy Compressor Co., Quincy, Ill.

VALVES, Engine Poppet



Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Eaton Mfg. Co., Valve Div., 9771 French Rd., Detroit, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Parts Processing Corp., 2100 Howard St., Detroit, Mich. "Par-Plus." (For trucks and buses.)
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Remco Products Corp., State & Hay Sts., York, Pa.
Rich Mfg. Co., Battle Creek, Mich. "R.M.C."

- *Direct*, electric drive with constant action regardless of engine load or speed.
- Synchronized operation of Dual arms and blades.
- Two speed operation. Tandem or opposed wiping motion.
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- Thermal cutout protects wiper motor against overload.
- Arms up to 12" long. Blades up to 14". Wiping angle up to 118°.
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DUAL ELECTRIC WIPERS FOR TRUCKS & PASSENGER CARS

Regardless of engine speed or load, these powerful *direct* electric drive Dual Wipers *always* function with unfaltering, synchronized action. Because they operate independent of engine, there is no lag or stuttering of the wiper blades during acceleration, to cloud steady, good vision of the road ahead, even in the roughest weather. Ask about Model WWB—designed for swift, simplified installation under cowl. Model WWA for vehicles requiring single Windshield Wipers with header mounting is also available. Rugged, heavy duty American Bosch construction assures years of trouble-free operation. Write NOW for complete specifications and application data for trucks, tractors and passenger cars in YOUR Fleet.

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ELECTRIC WINDSHIELD WIPERS • DIESEL FUEL INJECTION EQUIPMENT

AMERICAN BOSCH CORPORATION • SPRINGFIELD 7 • MASS.

VALVES, Engine Poppet—cont.

Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

VALVES, Gasoline Tank

Buckeye Iron & Brass Works, P. O. Box 883, Dayton 1, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.
Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit 9, Mich.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

VALVES, Safety or Emergency

(For safeguarding contents of tanks)

Betts Machine Co., 1800 Pennsylvania Ave., W., Warren, Pa.
Feil Co., 3000 W. Montana St., Milwaukee 1, Wis.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. Pelton Moisture Ejector Valve.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Shand & Jurs Co., 917 Carlton St., Berkeley 2, Calif. "S & J."
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

VALVE TAPPETS, See Tappets, Valve

VALVES, Three-Way and Four-Way (Air)

Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.
Branick Mfg. Co., Fargo, N. D.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio. "Quick as Wink."
Ross Operating Valve Co., 120 E. Golden Gate Ave., Detroit 3, Mich.
Westinghouse Air Brake Co., Industrial Products Div., Wilmerding, Pittsburgh, Pa.

VALVES, Tire

(See also Caps, Tire Valve)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Cores only.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y. (Cores only.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y. (Cores only.)
Rite-Way Products Co., 39 W. E. H. Crump Blvd., Memphis 2, Tenn.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

VENTILATORS, Bus and Truck

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone." (Bus.)
Evans Products Co., Thermo-Aire Div., Plymouth, Mich. "Evans." (Bus and truck cab.)
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind. (Bus.)

VENTILATORS, Crankcase

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn.
Fram Corp., Providence 16, R. I.
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.

VENTILATORS, Roof

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. "Aerovent." (Bus.)
H & P Die & Stamping Co., 13945 Trishett Rd., Cleveland 11, Ohio.
Imperial Electric Co., 214 W. Pearl St., Union City, Ind. (Cab.)
Metalcraft Mfg. Co., 916 E. 23rd St., Indianapolis, Ind.

VENTS, Tank Body

McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

VISCOSIMETERS

Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill. "Saybolt."
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

VISES, Piston

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Production Devices, Inc., N. Williams St., Whitehall, N. Y. "Airlox." (Pneumatic and hydraulic.)
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

VISES, Piston Pin

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Starret Co., L. S., 1 Crescent St., Athol, Mass.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Velvet Grip."
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia, 42, Pa. "Pedrick."

VOLTAGE REGULATORS, See Regulators, Current and Voltage

VULCANIZERS, Portable

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Electric, tube.)
Bishman Mfg. Co., Osseo, Minn. (Tube.)
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Lectroseal." (Electric tire.)
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8 Ohio. "Dillectric." (Electric, tube.)
Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure." (Tube.)
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis. (Tube and valve stem.)

VULCANIZERS, Shop

Allied Automotive Corp., 14512 Burt Rd., Detroit 23, Mich. "Tireweld."
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Cal. (Steam and electric tube.)
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. "Brown." (Electric and steam tube.)
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kans. (Tube.)
Heintz & Co., James C., 3738 W. 143rd St., Cleveland, Ohio. (Tube.)
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio. (Electric.)
Meath Mfg. Co., 2201 Spring St., Houston 10, Tex. (Tire and tube.)
Shaler Co., Waupum, Wis. (Tire.)

WASHERS (Fountain Brushes and Mops)

Flour City Brush Co., 301 Fifth Ave., S., Minneapolis 15, Minn. "Autowash," "Buswash," "Fleetwash." (Brushes.)
Henry Mfg. Co., 421 5th Ave., S. Minneapolis, Minn. "Henico." (Brushes.)
Kansas City Fountain Brush Mfg. Co., 1230 Oak St., Kansas City, Mo. "K. C." (Brushes.)
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. "Laco." (Brushes.)
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master." (Revolving brushes and injector for liquid detergent.)
Melaire Dist. Co., 420 Lexington Ave., N. Y. 17, N. Y. "Swirl - O - Matic." (Revolving brushes.)
Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis. "Speed-Wash."
Molded Specialties, Inc., 1333 E. 170th St., Cleveland, Ohio (Wash pads.)
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa. "Fleet-Kleen." (Brushes.)
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Tucker Mfg. Co., 305 First St., S. W., Cedar Rapids, Iowa. (Brushes.)

WASHERS, Metal Parts

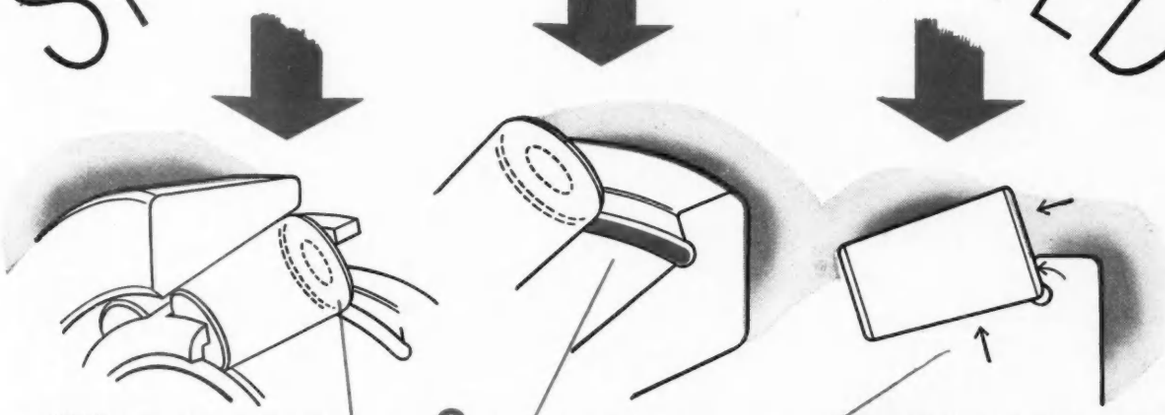
Aeroil Products Co., Wesley St., South Hackensack, N. J. "Aeroil Heet-Master," "Aeroil Dipmaster."
Alvey-Ferguson Co., 75 Disney St., Oakley, Cincinnati 9, Ohio. "A-F."
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. "Typhoon." (Centrifugal.)
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Niagara," "Blakeslee," "De-Greas-O."
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn.
Circo Products Co., 6531 Euclid Ave., Cleveland, Ohio.
Clayborne Mfg. Co., 3234 W. 31st St., Chicago 23, Ill.
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Autosan."
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn.
Detrex Corp., Box 501, Detroit 32, Mich.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
Drying Systems, Inc., 1810½ Foster Ave., Chicago 40, Ill. "Dry-Sys."
Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. "Erie Rotawasher."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Gray-Mills Corp., 2006 Ridge Ave., Evanston, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
Internation Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus Aja-Dip," "Magnus Miji-Dip."
Mahon Co., R. C., 6565 E. 8-Mile Rd., Detroit 34, Mich. (Combined belt conveyorized washer and dryer.)
Michigan Fleet Equipment Co., 754 Front Ave., Grand Rapids, Mich. "M-F."
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Uni-Wash."
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyorized washer and dryer.)
Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill. "Phillips Torrent."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
Protectoseal Co., 1920 W. Western Ave., Chicago 8, Ill. "Air-Matic."
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Ransohoff, Inc., N., 16 E. 72nd St., Carthage, Cincinnati 16, Ohio.
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Brake shoes and parts.)
Solventol Chemical Products, Inc., 15841 Second Blvd., Detroit, Mich.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."

WASHERS, Steel (Advertisers only)

Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich.

BOWER BEARINGS ARE

SPHER-O-HONED



SPHER—Stands for generated spherical roll-head and flange surfaces designed and manufactured to the exact contour they would otherwise acquire in use. Alignment is improved; wear minimized.

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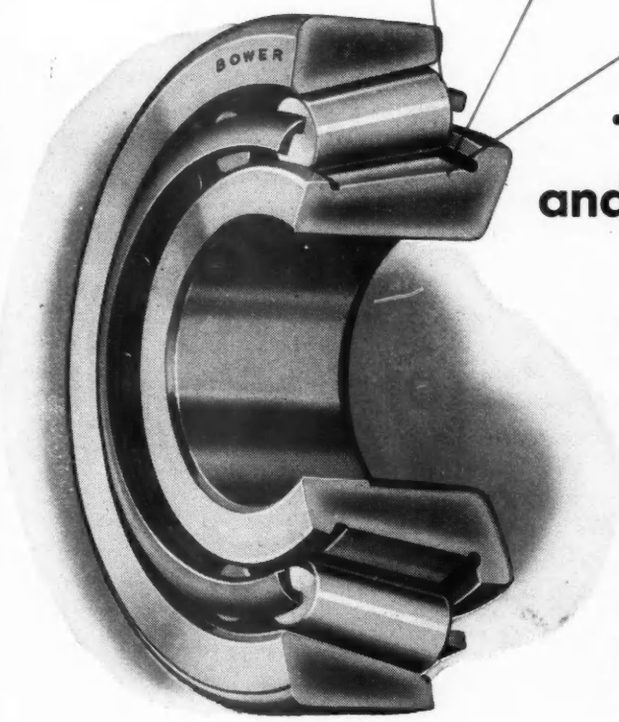
HONED—Stands for hard, durable races which are honed to micro-inch smoothness. This bonus of precision eliminates the problem of run-out and also prolongs the life of the bearing.



...to improve your product and your plant equipment, too!

Look closely at Bower Spher-O-Honed bearings. Note these basic refinements in design and construction—generated spherical roll-head and flange surfaces; large oil grooves; precise, durable races.

You'll see they can benefit your manufacturing operation in *two distinct ways:*

Installed in your product, Bower bearings contribute positive dependability—wear resistance—long life. They can help make yours a better product, better able to meet competition.

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BOWER ROLLER BEARING COMPANY, DETROIT 14, MICH.

BOWER

ROLLER BEARINGS

SPHER-O-HONED

WASHERS, Vehicle

(Water, steam and compressed air)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. (Steam.)
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.
Chem-Therm Mfg. Co., Pasadena, Calif.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kleaner." (Oil and gas fired.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Deming Co., Salem, Ohio.
Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foamizer."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. "Erie Rotowasher."
Friend Mfg. Co., East Ave., Gasport, N. Y.
General Equipment Div., Sterod Mfg. Co., 442 Frelinghuysen Ave., Newark 5, N. J.
Hardie Mfg. Co., Mechanic St., Hudson, Mich.
Henry Mfg. Co., 421 5th Ave., S., Minneapolis, Minn.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny." (Steam vapor spray.)
Hydro-Air Cleaning Systems, Inc., 11921 Miles Ave., Cleveland 5, Ohio.
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Phillips Pump & Tank Co., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. "Blackhall" van washer.
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Sterod Mfg. Co., General Equipment Div., 442 Frelinghuysen Ave., Newark 5, N. J. "General."
Tivit Products Co., 130 E. Elmyra St., Los Angeles 12, Calif. "Kelite."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
W. S. Washmobile Corp., 350 N. Foothill Road, Beverly Hills, Calif.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Whiting Corp., 15695-C Lathrop Ave., Harvey, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

WASHERS, Windshield (Vacuum Operated)

Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WAX, See Polish, Body

WEATHER STRIPS

Automotive Products Div., Crotly Corp., 39 E. Chicago Ave., Quincy, Mich. "Yankee-seal."
Backstay Welt Co., Oak & Howard Sts., Union City, Ind. "Tricord."
Bridgeport Fabrics, Inc., 805 Wood Ave., Bridgeport, Conn. "Inner Seal." (Door.)
Brockton Stay Co., 24 Essex St., Haverhill, Mass.
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.
Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
Continental Rubber Works, 1946 Liberty St., Erie, Pa. "Vitalic."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
G & G Products Co., Lindale Rd., Amelia, Ohio.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gordon Co., J. P., 232 Neilson St., Columbus 16, Ohio.
Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.
Hope Webbing Co., Providence, R. I.
Industrial Rubber Goods Co., St. Joseph, Mich.
Inland Mfg. Div., General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Kar-Seal," "Stix On."
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
Kravex Mfg. Co., 273 Van Sinderen Ave., Brooklyn 7, N. Y. "K M." (Door and trunk.)
Lange Machine Works, Henry G., 150 N. May St., Chicago 7, Ill.
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex." (Door.)
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Union Welt Corp 2727 W. Roscoe St., Chicago 18, Ill. "Sealtite."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Inc., 7800 Woodlawn Ave., Chicago 19, Ill. "Dutch Brand Rub'r-Shim."
Western Felt Works, 4029 Ogden Ave., Chicago 23, Ill.

WEIGHTS, Wheel Balancing

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Mfg. Co., P. O. Box 569, Davenport, Iowa.
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.
Mid-Western Auto Parts, 824 E. Elm St., Kokomo, Ind. "Snugl Fad-A-Way."
National Wheel & Parts Mfg. Co., 1808 S. Michigan Ave., Chicago 16, Ill.
Powell Mfg. Co., 813 Burlington Ave., Logansport, Ind. "Excel."
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind. "Snap-Tite," "D & T."
Wabash Auto Parts, Inc., Box 355, Wabash, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wheel Weights, Inc., 16833 Wyoming Ave., Detroit 21, Mich.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

WELDERS and EQUIPMENT, Electric (Arc)

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Also combination spot and arc.)
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Allmand Bros. Mfg. Co., 1315 Fourth Ave., Holdredge, Neb.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin."
Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.
Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J.
Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Alternarc," "Dualarc," "Electroweld," "Nu-Arc."
Ergolyte Mfg. Co., 3627 N. Lawrence St., Philadelphia 40, Pa.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
General Electric Co., Apparatus Dept., 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo. (Portable.)
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Hobart Bros. Co., Hobart Square, Troy, Ohio.
Kern Co., John A., 224 N. Loomis St., Chicago 7, Ill.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland, Ohio. "Shield-Arc," "Fleetwelder," Manual; "Lincolnweld," "Electric Tornado." (Automatic.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Metal & Thermit Corp., 120 Broadway, New York, N. Y.
Mid-States Welder Mfg. Co., 6025 So. Ashland Ave., Chicago 36, Ill. "Mid-States Metal Zipper." (Also "Missing Link" stabilizers.)
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "Sureweld."
Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. "Nelweld." (Portable.)
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Trindl Products, Ltd., 17 E. 23rd St., Chicago 16, Ill. (Welding.)
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Flex-Arc."
Wilson Welder & Metals, Inc., 60 E. 42nd St., New York 17, N. Y.

WELDERS and EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York, N. Y. "Airco."
Black Mfg. Co., 100 Dairy Rd., Parkton 63, Md. "Milburn," "Black Arrow."
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)
Hobart Brothers Co., The, Hobart Square, Troy, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld," "Prest-O-Weld," "Purox."
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)
Modern Engineering Co., 3411 Pine Blvd., St. Louis 3, Mo. "Meco."
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill. "Rego."
National Cylinder Gas Co., Torchweld Equipment Div., 4700 W. 19th St., Chicago, Ill. "Torchweld."
Paschall Oxygen Div. of Liquid Carbonic Corp., 73rd St. & Woodland Ave., Philadelphia 42, Pa. "Gasweld."
Sight Feed Generator Co., West Alexandria, Ohio. (Acetylene generators.)
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Tolman Mfg. Co., 19 W. Third St., (South Boston), Boston 27, Mass.
Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

WELDING CABLE, See Cable, Welding

WELDING COMPOUNDS, See Compounds, Welding

WELDING HOSE, See Hose, Welding

WELDING RODS, See Rods, Welding

WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning

WHEEL BALANCING MACHINES, See Balancers, Wheel

WHEELS, Fifth

American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A.S.F."
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Cenco Industries, Inc., First National Bank Bldg., Galion, Ohio (Hydraulic Elevating.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Fontaine Truck Equipment Co., 3827 First Ave., N., Birmingham, Ala.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hodo & Vandegriff, Inc., Box 2127, Montgomery, Ala. (Fifth wheel No-tilt lock.)
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Pollard Co., C. E., 14571 Schaefer Highway, Detroit 27, Mich. (Elevating hydraulic type.)
Spencer-Safford Loadcraft, Inc., Augusta, Kan. "Spencer Trail-Lite."
Weber Trailer & Mfg. Co., 1100 E. Fifth St., Los Angeles, Calif.

WHEELS, Vehicle (Cast Metal)

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.

NEW SAFETY LIGHTING by DIETZ

A new universal Stop and Tail Light with plastic reflex reflector — New Protected Giant Stop Light — New Giant Stop Light (Bracket Mounted or Flush Recessed Mounted). Write for catalog pages of these and other NEW DIETZ items . . . Class "A" Signals — Class "B" Signals — Rubber Protected Mirrors — Back Up Lights — Warning Lights — Protected Clearance Lights.

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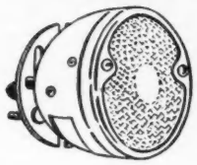
Over a Century of Safety Lighting

No. 105 STOP AND TAIL LIGHT

Stimsonite red reflex lens of Lucite Plastic is *practically indestructible* . . . minimizing expense of lens replacement. Far exceeds S. A. E. reflex requirements . . . State approved and standard equipment on many vehicles. Body is heavy steel with long-wearing black enamel finish . . . rugged glass license plate lens. Mounted with 2 stud bolts on 2" centers. Double filament 3-21 C.P. Bulb. Removable license plate bracket No. 635-105 is available for use with No. 105 or 105-U Lights.

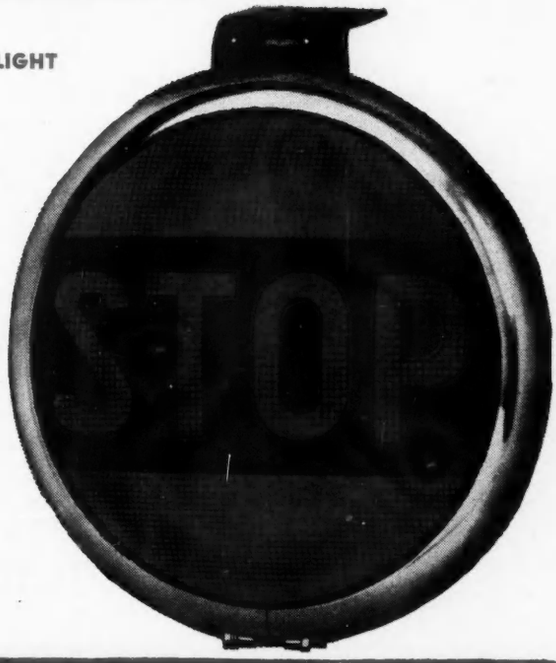


No. 105-U STOP AND TAIL LIGHT

The same as No. 105, except fitted with universal slotted mounting plate; permitting adjustment to various bolt centers . . . either horizontal or vertical.

No. 41 GIANT PROTECTED STOP LIGHT

Rugged, heavy steel housing protects lens and light from damage . . . will outlast ordinary types of stop light many times. The lens is heavy red glass with word STOP firestained on the lens . . . 21 C.P. Bulb . . . 2 bolt mounting.



No. 44-BS GIANT STOP LIGHT

With a visible diameter of 6⅝" this Stop Light with Red or Amber lens is available with firestained word STOP or with plain stippled lens. Door rim — chrome plated on brass, Mounting — L type bracket, 21 C.P. Bulb.

No. 44-S GIANT STOP LIGHT

Same as No. 44-BS with 9¼" diameter mounting flange. Depth behind flange 1 5/16" . . . panel opening required — 6⅜".

Write today R. E. DIETZ COMPANY • SYRACUSE 1, N. Y.

WHEELS, Vehicle (Cast Metal)—cont.

Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Truck.)
Homan & Co., Inc., 920 State Ave., Cincinnati 4, Ohio.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.

WHEELS, Vehicle, Disc

Aluminum Company of America, Pittsburgh 19, Pa.
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Truck.)
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. "Disteel."

WHEELS, Trailer

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Clark Equipment Co., Buchanan, Mich. (Cast spoke.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Differential Wheel Corp., 5169 Martin Ave., Detroit 10, Mich. (Differential dual.)
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)
French & Hecht, Div. Kelsey-Hayes Wheel Co., Third & Farnam St., Davenport, Iowa.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast metal.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. (Disc steel.)
Permold Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

WINCHES, Truck

Adams Engineering Co., 1969 E. 119th St., Cleveland 6, Ohio.
American Hoist & Derrick Co., 63 S. Robert St., St. Paul 1, Minn.
Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)
Braden Winch Co., Box 1709, Tulsa 1, Okla.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Cascade Mfg. Co., 2439 N. W. 29th St., Portland 10, Ore. "Ramsey."
Dorsey Trailers, Inc., Elba, Ala.
Eagle Mfg. Co., 414 E. Winnebago St., Appleton, Wis. "Graybar." (Sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
Erie Hoist Co., 2000 Holland St., Erie, Pa.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)
Lufkin Foundry & Machine Co., Lufkin, Tex.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers-American."
Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B."
Ramsey Winch Mfg. Co., Box 3035, 5531 E. Admiral Place, Tulsa 8, Okla.
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio.
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.
Tulsa Winch Div. of Vickers, Inc., 823 E. First St., Tulsa, Okla.

WIPERS, Windshield (Air)

Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
Sprague Devices, Inc., Huron St., Michigan City, Ind. "Air Push."
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (For trucks and buses.)

WIPERS, Windshield (Electric)

American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Neverstall."
Auto-Lite Battery Corp., Owen-Dyneto Div., 1920 Park St., Syracuse, N. Y. "Dyneto."
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y.
Electric Service Mfg. Co., 17th & Cambria St., Philadelphia 32, Pa. (For bus and trolley.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
Storm-King Products Co., 148-08 95th Ave., Jamaica 4, N. Y.

WIPERS, Windshield (Vacuum)

Anderson Co., Gary, Ind.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WIRE, IGNITION, STARTING AND LIGHTING, See Cable, Ignition, Starting and Lighting

WRECKERS, See Cranes, Service Truck

WRENCHES, Portable Electric

Black & Decker Mfg. Co., Towson 4, Md.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Millers Falls Co., Greenfield, Mass.
Van Dorn Electric Tools, Towson 4, Md.

WRENCHES, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.

WRENCHES, Torque

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Airdraulics Engineering Co., Burtis Ave., New Canaan, Conn. "Trutorq."
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Apco Mossberg Co., Lamb St., Attleboro, Mass. "Mossberg."
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk Torkflash."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
C. & G. Wheel Puller Co., Scio, N. Y. (Preset.)
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
J O Mfg. Co., 8442 Otis St., South Gate, Cal. "Joel," "Joex," "Jomi," "Jote."
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Richmont, Inc., 2810 E. 11th St., Los Angeles 23, Calif. "Livermont Torq-Stop."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Sturtevant Co., P. A., Addison, Ill.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Measurrench."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

WRIST PINS, See Pins, Piston

SPECIALIZED PRODUCTS

CLEANERS, Steam. See also Cleaners, Engine, Chassis and Fender, Page 90.

Siebring Mfg. Co., 182 Main St., George, Ia.

GRILLES, Rolling, for Doorways

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

HARDWARE, Truck and Trailer. See also Hardware, Truck Body

Miner, Inc., W. H., Chicago, Ill.

HEAT EXCHANGERS (Oil and Water Coolers)

Ross Heater & Mfg. Co., Inc., 1442 West Ave., Buffalo 13, N. Y.

INSULATORS, Spark Plug

Frenchtown Porcelain Co., Muirhead Ave., Trenton, N. J.

LUGS, Solderless

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

MATERIALS, Body Repair (Non-Metallic)

Hollingshead Corp., R. M., Camden 2, N. J. "Met-L-it" (Cold process repair compound and material.)
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.

PLUGS, Fusible Safety for hydraulic lines

Shand and Jurs Co., 917 Carleton St., Berkeley, Cal.

PUMPS, Oil

Wohlert Corp., Lansing 5, Mich.

SAND (for Traction Sanders)

Keystone Granite Quarry, Old Zionsville, Pa.

SIGNALS, Low Air Pressure (Brakes)

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich., "Pressure-Clix."
Monroe Standard, Inc., Galion, Ohio, "Wig-Wag" (Visual).

SIGNALS, Low Hydraulic Brake Fluid

The Baldwin Electric Co., 1212 Jackson Ave., Toledo, Ohio.

SOLVENT, Ice

Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. (Ice preventing on windshield.)
Normandy Chemical Corp., 9th & Western, Muskegon, Mich. "Saif."

SPEEDOMETER CABLES

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan."
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y. "Parco."
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Speedometer Service Co., 151 Forest St., Montclair, N. J. "S. S."
Stewart Mfg. Corp., F. W., 4311 Ravenswood Ave., Chicago, Ill. "Circle Ess."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

VENTILATOR, Exhaust Manifold

Flint Corp., 1310 W. Clybourn, Milwaukee, Wis.

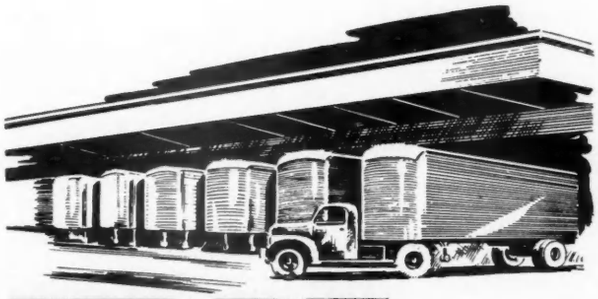
WINDSHIELD SEALING COMPOUND

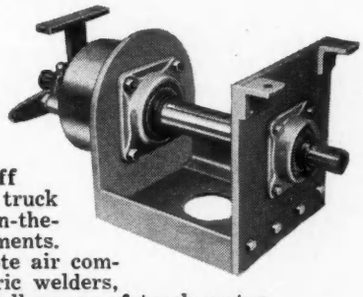
Foster & Kester Co., Inc., 2601 N. Broad St., Philadelphia 32, Pa. "Sealzit."

END OF DIRECTORY LISTINGS

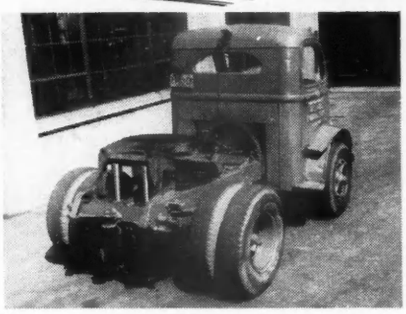
CEMCO

A Name that Has Meaning in the Trucking Industry





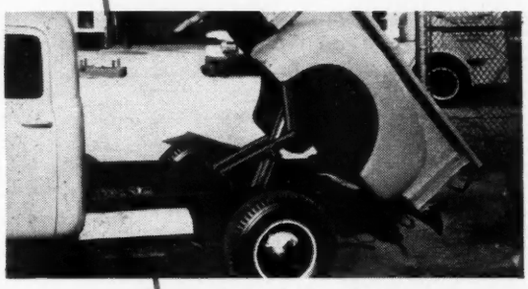
CEMCO
Split-shaft
Power Take-Off
Utilize your truck power for "on-the-job" requirements. Ideal for remote air compressors, electric welders, etc. Delivers full power of truck motor.



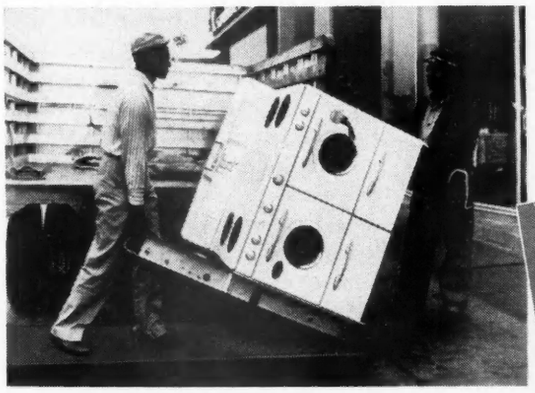
CEMCO

"Trailer Jockey"

Put hydraulic power under your fifth wheel. Spot trailers in half the usual time. Saves time of dock crew, too.



CEMCO Underbody Hoist
A sturdy, single cylinder unit with lifting capacity of 2 tons on 7′ to 8′ bodies, (¾ and 1 ton pick ups) or, a twin cylinder unit of 4 ton capacity for 9′ bodies. Subframe, at slight extra cost, simplifies installation.



CEMCO "Hydraul-lift" Tailgate

Fits most any truck or semi-trailer body. Lifts or lowers up to 2,000 pounds safely, with ease. Means fewer truckers and helpers—cuts down capital investment, cuts down personal injuries. **Real savings!**

CEMCO INDUSTRIES, INC.
GALION, OHIO

Gentlemen:
I'm interested. Please send me more information on your
☐ TRAILER JOCKEY
☐ HYDRAULIC TAILGATE
☐ SPLIT-SHAFT POWER TAKE-OFF
☐ UNDERBODY HOIST

Firm Name .....

Address .....

Attention .....

American Trucking Assn. Meeting

Continued from Page 6

get lower octane ratings in fuels, he continued, due to the fact that jet planes use considerably more petroleum products than gasoline models.

Mr. Knudson promised that every effort is being made to put motor transportation on the critical list in order to assure sufficient manpower, but, he warned, manpower will be a problem in a national emergency. On the matter of uniform weights the Commissioner said that his bureau may go much further than ODT—that a conference with states individual is in the offing. . . . In the over all picture, the fleet operator can cooperate by (1) Control of profits, (2) Watch weights and charges. We urge you, he concluded, to give sober thought to this matter.

The subject of roads, always of interest to the industry, took the spotlight Friday. The trucking industry must turn increasing attention to improving the nation's inadequate highway system, said John V. Lawrence, managing director of ATA at the fourth general luncheon of the convention.

"We know now," he said, "and so do the highway engineers, that if in the 1920s they had any idea that we would have 48 million motor vehicles moving over their proposed roads in 1950 they would have built them a lot different." He referred to the "increasing" tendency to place the blame for whatever may be wrong with the country's highways upon the truck owners of the nation.

Mr. Lawrence warned the trucking industry must "move all out" to prevent "evil men or thoughtless men or self-serving men from maligning us in the future. . . . If we are going to be held responsible for the condition of the highways we are going to have something to say about how they are built."

Conference Proceedings

THE ten Conferences met in individual sessions for the first part of the week. Private Carriers voted to set up a full time office in the headquarters of ATA and named Vincent L. O'Donnel, secretary-manager to head the Washington activities for the 700 members.

At the Common Carriers session recommended specifications for a uniform electrical connector for truck-trailer jumper cables were presented. . . . A new committee on equipment design headed by Jack Sneed, of Consolidated Freightways took shape. Purpose of the committee is to study motor carrier equipment to describe best types producing the most profit per mile, for particular freight movements in particular areas.

One of the principal speakers appearing before the Common Carrier group was Major General Frank A. Heileman, Chief of Army Transportation. In a brief talk he told the Conference that the Army is using three times the amount of truck shipping during the present preparedness program than it used at the peak of World War II—but he added—the Army plays no favorites in choosing between the different forms of transportation. The Army is determined to get the most out of its transportation dollar, he said.

Roadeo Winners

FROM the standpoint of the man behind the wheel, highlight of the week was the National Truck Roadeo finals run off Wednesday evening. John N. Castner, of Pierce Auto Freight Lines, Medford, Ore., took first place in the truck and full trailer class. Other champions out of a field of 90 state title holders from 29 states were Richard Wold, of Glendenning Motorways, St. Paul, Minn. (straight truck); John Waldon, of Foster Freight Lines, Indianapolis (tractor with single-axle semi-trailer); O. E. Chapman, of PIE in Denver (tractor with tandem-axle semi-trailer). It is interesting to note that out of the eleven places in all but the full trailer class, eight Dodges, two International Harvesters and one Reo brought the champions in. A single White was used by all full trailer entries.

By virtue of its clean sweep in the ATA contest, Pacific Intermountain Express, automatically became the choice of the Trailmobile Co. of Cincinnati, Ohio, for the Trailmobile Trophy, awarded for "the most outstanding record in safe operation and highway safety." Kenneth M. Beadle, P. I. E. safety director received one of the awards annually presented to individuals responsible for outstanding fleet safety by the Electric Auto Lite Co. of Toledo, Ohio.

The Pennsylvania Motor Truck Association was selected as the organization among ATA-affiliated state trucking associations that carried out the best program of safety promotion.

Winner of the Trailmobile Trophy for the outstanding record in safe operation and highway safety in the tank truck group was the Ruan Transport Corp. of Des Moines, Iowa.

1951 Officers

IN addition to Leland James as president and Henry English as chairman, new officers include: Walter Mullady, Decatur Cartage Co., Chicago, first vice-president; Fred S. Hufnagel, Sun Oil Co., Philadelphia, second vice-president; Percy Arnold, Cole Teaming Co., Provident, R. I., third vice-president; and C. J. Williams, Hillside Transit Co., Milwaukee, Wisc., fourth vice-president.

Re-elected were George V. Eastes, Lee & Eastes, Seattle, treasurer, and Chester G. Moore, chairman of the board of Central Motor Freight Assn., Chicago, secretary.

The following were elected as chairmen of ATA conferences: Walter F. Carey of Commerical Carriers Inc., Detroit, Automobile Transporters Conference; J. R. Freeman, Rowe Transfer and Storage Co., Knoxville, Tenn., Local Cartage; C. J. Roush, Roadway Express, Inc., Akron, Ohio, Regular Common Carriers; John E. Maltby, Darling Freight Co., Grand Rapids, Michigan Irregular Route Common Carriers; R. E. Dieckbrader, Indiana Lines, Cincinnati, Ohio, Contract Carriers; James P. Clark Highway Express Lines, Philadelphia, Pennsylvania, Household Goods Carriers; C. R. Patterson, Sr., Patterson Truck Line, Houma, La., Oilfield Haulers; A. E. Cudlipp, Lufkin Foundry and Machine Company, Lufkin, Texas, Private Carriers; Frank Baird-Smith, Refiners Transport and Terminal Corp., Detroit, Michigan, Tank Truck Carriers.

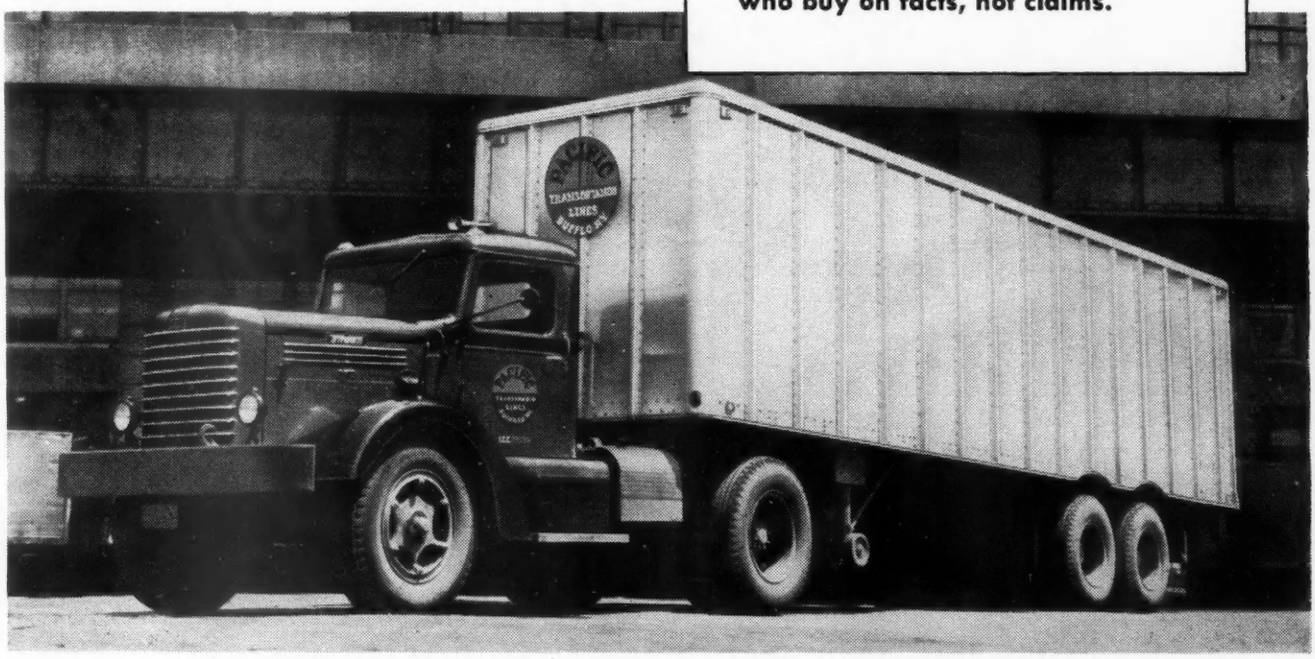
END

Please resume your reading on P. 10

Operators who check the Facts,

Buy *BROWN!*

With millions of miles of actual operating experience behind them, Brown Tractors and Trailers are being bought by more and more operators who buy on facts, not claims.



Daily running up new performance records for many owners, Brown Tractors (both gas and Diesel) and Trailers are growing faster in popularity than any other units in operation.

There are good and sound reasons for this. Brown units have been engineered with features dictated by actual operating conditions to meet modern hauling needs with utmost economy.

Tested on the World's Toughest Proving Ground—the varied highways and congested city streets of the eastern United States—Brown Tractors (both gas and Diesel) and Trailers have been found to meet both owners' wants and drivers' needs to the utmost degree of satisfaction.

A mass of evidence on their outstanding performance under any and all conditions is available for inspection by interested prospective owners. This evidence will be found to compare most favorably with other make units of similar size and payload.

Brown Tractors and Trailers are, on an actual comparison basis, today's best buy in the trucking field. Reliable service and service facilities are available at nearby, convenient points along the Eastern Seaboard. Inquiries are welcomed.

BROWN TRACTORS AND TRAILERS

"A BEAR FOR PUNISHMENT!"

BROWN EQUIPMENT & MANUFACTURING COMPANY, 1740 BROADWAY, NEW YORK 19, N. Y.

Charlotte, N. C.—Taunton, Mass.—W. Springfield, Mass.—Syracuse, N. Y.—Baltimore, Md.—Windsor Locks, Conn.

SAE Transportation & Maintenance

Continued from Page 10

band meter and some of the physiological factors involved with jury testing of noises by ear. Three physical factors involved in noise—intensity, frequency distribution and time pattern—all involve special problems, it was explained but vehicle noises can be reduced by 1. improved highway traffic light planning, 2. planting of shrubbery along busy intersections to muffle street noises, 3. planned routing of thorofares and of truck routes, 4. use of larger and better mufflers.

Ernest J. Abbott, of Physicists Research Co., supported the findings of the Committee. He said that present day mufflers were too small, that many units were unnecessarily noisy because of inadequate maintenance, that drivers themselves cause undue noise by careless operation of the vehicles. However, well-designed mufflers of approximately 5 cu ft volume will go a long way toward quieting those vehicles, he concluded.

Accessibility, long a problem of the mechanic and the vehicle owner, came in for its share of attention. H. O. Mathews, of Standard Brands, Inc., presented results of a survey he had conducted to show how operators the country over had plenty of faults to find with present day truck design. He spoke especially of carelessly located distributors, generators, oil lines, fuel pumps, radiator hoses—in effect, those parts and assemblies requiring routine maintenance and inspections. He suggested the development of a committee made up of fleet owners and manufacturers to make studies of the question and problems of accessibility and provide recommendations for new designs that would reduce maintenance costs and speed repair work. The committee would be purely advisory, he said, and its service would be available to any manufacturer.

Mr. Mathews made the following recommendations with regard to improving accessibility in future designs: 1. Use tilting cabs for COE models, 2. Locate engine accessories where they can be removed, adjusted, replaced with a minimum of time and effort, 3. Provide for easier adjustment facilities in all assemblies requiring frequent attention.

Randalph Whitfield, of Georgia Power Co., speaking from the standpoint of accessibility in buses, emphasized that from the standpoint of operating economy accessibility is even as important as fuel consumption. In fact in the case of buses operating for 10 years and traveling more than 500,000 miles, it may cost more for shop labor than for fuel. Then why not, he asked, think more in terms of miles per man hour as well as in miles per gallon? He recommended that the degree of accessibility in bus design be governed by frequency of servicing. As one example he referred to the dipstick requiring in some buses "a flashlight, a periscope, or perhaps a funnel to get the dipstick back in the hole." He recommended a larger opening, a gage that is more easily read, a location that does not endanger the mechanic to burns from the exhaust while checking the oil level. Mr. Whitfield suggested that any person employed in vehicle design should call on shops and work with mechanics, where "they would gain invaluable practical experience on the problems of maintenance accessibility as they actually exist in the shops."

A. H. Easton, director, Truck Research Project, University of Wisconsin, reported on tests for traction and stability in front, rear and four-wheel-drive vehicles on an ice track at Pine Lake. According to this study the four-wheel-drive vehicle provides the maximum traction, stability and safety. Mr. Easton produced a movie to show the characteristics of each of the three vehicles under braking, with spinning wheels and on curves on glare ice to back up his statements. For more details on this project refer to the December issue of CCJ.

Fuels and Lubricants

A PAPER of particular interest was presented on Wednesday by G. A. Round, and W. S. Mount, of Socony-Vacuum Oil Co., Inc. Entitled "What the Fleet Operator Should Know About Fuels and Lubricants," this paper did just that—it provided some of the most comprehensive and up-to-date information heretofore available on the subject of gasoline, diesel fuel, greases and oils.

On the subject of the kind of gasoline required for commercial vehicles, Mr. Mount recommended that the quality should be just high enough to avoid undue knock, and not one octane number beyond this level, as nothing is gained after knock is suppressed. However, no one gasoline can be matched efficiently to the needs of vehicles ranging from 60 to 92 octane number. Until engine knocking tendencies are brought under better control and the requirement range is substantially reduced, the fleet operator will pay a penalty of higher than necessary fuel costs, he said. The bulk of regular grades fall in the bracket between 81 and 87 Research octane number, and this will satisfy commercial requirements. In an attempt to get better performance from non-critical engines the fleetman can pay particular attention to spark timing, carburetor adjustment, and to compression ratio, the latter being adjusted with various thickness of cylinder head gaskets. Deposits, local hot spots, hot plugs, and excessive projections of any nature into the combustion chamber must be remedied in order to eliminate pre-ignition. Maintenance of proper temperature summer and winter is also necessary. Where troubled with deposits, the recently announced method for mechanical removal of carbon without removing the head might be investigated, the speaker continued.

Mr. Round discussed the three basic types of oil available today along with 5 sub-types and showed where they could profitably be used in the fleet picture. Engines vary widely in their sensitivity to the effect of sulphur and other fuel components in promoting wear and deposit formation, he said, and hence in their need for special high cost oils.

High additive content oils may reduce corrosive wear but promote wear in some engines by abrasive ash deposits. Hence these oils should not be looked on as a cure-all but as medicine to be used with caution.

(TURN TO PAGE 344, PLEASE)

HEAVY-RIBBED

GUNITE BRAKE DRUMS

(Normalized, if Desired)

OFFER MEASURABLE REDUCTIONS IN BRAKE MAINTENANCE COSTS

Get 4-Wheel Brake Effect On Your 2-Wheel Trailer

When only two genuine GUNITE Brake Drums are installed on a pair of rear tractor or trailer wheels, the more efficient GUNITE Brake Drums take over and do most of the braking. In effect, you get 2-wheel brakes. Good . . . but still only 2 wheels really braking! You can have *superior* 4-wheel brake effectiveness by installing Heavy Ribbed GUNITE Brake Drums all around. This method has reduced maintenance costs from 25% to 40% per year for some operators. Install GUNITES on all dual wheels and lower your maintenance costs.

GUNITE Brake Drums offer you more smooth, effortless, silent, stopping power with your present equipment. Try GUNITES on your toughest runs. See for yourself how they provide smoother, safer, faster stops. See how few adjustments are required. See how both linings and drums last much longer under your worst operating conditions. See how your operating and maintenance costs go down. This trial will show you why drivers and operators everywhere insist on GUNITE Brake Drums. You can't get a better brake drum, nor one that costs less to maintain than GUNITE.

Write for name of your nearest GUNITE Distributor.

Specify GUNITE Tubular-Spoke, Cast Electric-Steel Wheels for Maximum Strength and Minimum Unsprung Weight On Your Next New Equipment

GUNITE FOUNDRIES CORPORATION

ROCKFORD, ILLINOIS

SAE T & M Meeting

Continued from Page 342

Continuing, Mr. Round stated that overloading, cold operation, poor combustion and lack of adequate crankcase ventilation can cause more wear and deposit formation with the best fuels than will occur with poorer fuels under proper operating conditions.

Accidents and Maintenance

MECHANICAL defects caused by inadequate maintenance are involved in truck and bus highway accidents much oftener than overloading, it was stated at the closing session when H. H. Allen and Louis Reznek, of the Section of Safety, Bureau of Motor Carriers, presented data to show that the average truck operates much more safely than the average passenger car and can, with adequate maintenance, achieve the commendable safety record established by motor buses. Pointing out that trucks are involved in nearly three times as many mechanical defect accidents as buses, they said that owners of the vehicles can save money through maintenance, since stoppages for road failures represent costs exceeding $1,500,000 annually.

Stopping a vehicle on the highway for repairs or any other purpose is extremely hazardous, it was explained. Fatalities occasioned by stopped vehicles in the period 1945-49 totaled 232 as against 181 for moving vehicles.

Statistics were presented to show that while, between 1945 and 1949, over-loaded, or under-braked, vehicles caused 1.9 per cent of the accidents, causes ascribable to improper or inadequate maintenance were much more common. Bad adjustments were said to top the list with 22.8 per cent, followed by breakage of tubing or hose with 13.7 per cent, valve failures with 10 per cent, leakage of tubing or hose with 8.4 per cent, and brake-lining difficulties 6.9 per cent. The speakers said that, in four years, there have been 162 fires on trucks caused by flat tires, but none on buses.

END

Please resume your reading on P. 14

Met Section SAE Discusses Leasing Problems

LEASING vs ownership again took the spotlight at a recent meeting of the Metropolitan section of SAE, when Robert Gardner, of Lever Brothers chairmanned a program consisting of five speakers selected from a well-rounded section of the industry. The question is a hot one, but the discussion filling this three-hour session promised to lift the roof from the Brass Rail.

Howard Willett, Jr., of The Willett Co., Chicago, led off with a "truck leasor's viewpoint." He reviewed highlights of the SAE French Lick meeting, where it was generally agreed that one of the factors determining whether it was cheaper to lease was the yearly mileage figures of the fleet, that 12,000 miles per year were the minimum below which a leasor could not go, with 40,000 miles per year as a maximum beyond which the company could not go and do it cheaper.

"If a company will set up a motor vehicle department, hire a competent automotive engineer, invest in personnel and equipment necessary to do an A-1 job of purchasing, depreciating, servicing, preventive maintenance and so on, then there is no reason why there should be much if any difference between lease rates and fleet costs. Given the same facilities they should operate about the same. The only difference then is the profit demanded by the leasing company. . . ."

On the other side of the picture, David Spielman, Chevrolet had something to say: Renting is preferred in many instances, he explained, as leasing releases the fleetman from large capital investments so that his money can be used in expanding his business. The leasing company relieves the operator from many supervisory details and the problems of office help. This system can provide repair work cheaper because specialists are employed who know flat rates and understand repair costs. Because of careful supervision and good safety program the leasing company is able to enjoy lower insurance rates and still supply full coverage.

In addition, a renting outfit can depreciate cars faster than the operator. Thus a new car can be supplied each year to appeal to the pride of the driver and at the same time to add appeal to company cars. Part of this stems from the fact that leasing companies are better equipped to take advantage of higher trade-ins at the right time. "We like high mileage accounts," continued Mr. Spielman, "because of our fixed rates. In fact we prefer that you drive our cars over 18,000 miles."

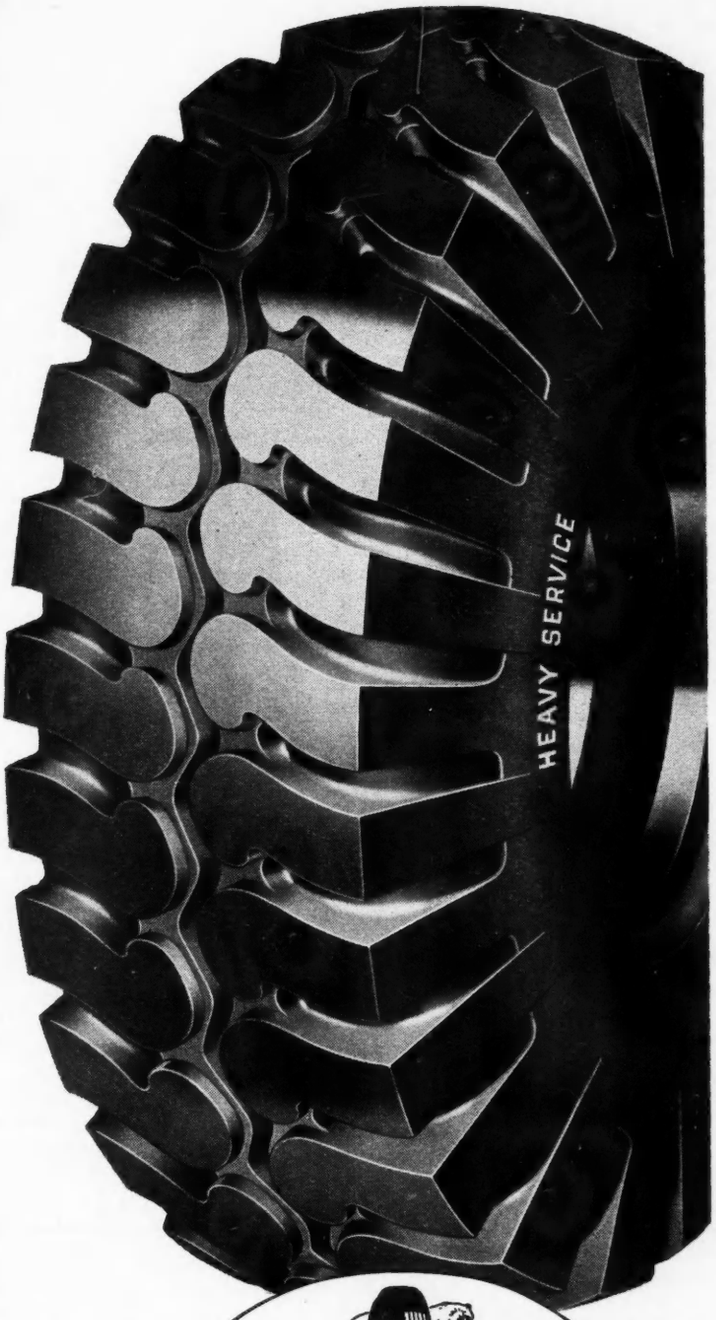
Harry Mathews, of Standard Brands, tread the fence. His company, operating 1000 cars in 48 states with up to 45 vehicles in one spot, buys on a predetermined trade-in figure; doesn't take over the responsibility of repair and maintenance; holds drivers responsible for PM inspections and servicing. Average cost to the company for maintenance is $16 per 16,000 miles of operation. Leasing companies under present rates would ask $18 per year for the same service.

As for costs of leasing route trucks, rates of the leasing companies are $200 to $300 over our own costs, he said. This is due in part to the fact that paper work is still required even when leased equipment is used. Again the company is able to reuse bodies when owning their own equipment and in this way get 8 to 10 years' service from them.

Sam Lee, of National Fleet Corp., Chicago, representing management consultant facilities, was well equipped to discuss this subject. As author of a new book called "Automotive Transportation in Industry," he had studied both sides of the question from all angles. "Truck leasing sells primarily guaranteed maintenance," he said, "and there is little preventive maintenance required on new vehicles anyway.

Mr. Lee took issue with the capital investment point brought out earlier. Capital investment needs be only 30 per cent, he said. You can finance the other 70 per cent very easily. Company ownership is most economical, but leasing of equipment is better than resorting to salesmen-owned cars—for many obvious reasons. That is the primary service of the leasing company, he continued. And finally Lee summed up his comments with what might have been the core of the whole controversy. "Leasing companies can and do offer services in some operations," he stated, "but they should stick to company markets where their services belong."

TRUE



TRUE DEPENDABILITY OVER THE HIGHWAY

The makers of GILLETTE Tires sincerely believe that the new GILLETTE Super Traction is one of the best mileage tires ever produced! An entirely new theory of tire design and construction ("load molding") makes this tire give dependable performance . . . *true* value.

TRUE TRACTION OFF THE ROAD

Bad roads, detours, slippery highways and off-the-road pickups don't faze the new GILLETTE Super Traction. Deep, sharp lugs bite from shoulder to shoulder. More rubber, better placed, gives 50% greater skid depth. For the first time you get *true* traction in a cool-running highway tire.

TRUE SAVINGS ON ALL YOUR TRUCKS

Better design, better construction and better craftsmanship all add up to a better *value* for you. We strongly urge that you contact your nearest GILLETTE Distributor to get the *true* story of how this amazing new tire can save you money... the New Double-Duty GILLETTE SUPER TRACTION.

A BEAR FOR WEAR

GILLETTE TIRES

DIVISION OF
UNITED STATES RUBBER COMPANY

THE NEW DOUBLE-DUTY

GILLETTE SUPER TRACTION

WEAR BETTER BECAUSE THEY ARE BUILT BETTER!

CCJ News Reports

Continued from Page 27

1950 Domestic Motor Truck Factory Sales by G.V.W.*

	5,000 lb. and less	5,001-10,000	10,001-14,000	14,001-16,000	16,001-19,500	19,501-26,000	Over 26,000	Total
January	39,252	19,251	6,804	13,093	2,680	1,816	1,482	84,378
February	39,629	17,151	6,032	11,739	2,720	2,157	1,511	80,939
March	47,828	20,921	7,200	14,644	3,680	3,474	2,062	99,809
April	46,375	19,025	5,884	12,971	3,391	3,322	2,326	93,294
May	52,805	21,935	7,468	16,721	4,077	3,596	2,393	108,997
June	58,892	24,249	8,158	18,488	4,104	3,507	2,838	120,236
July	47,590	20,991	6,550	13,489	3,780	3,489	2,684	98,573
August	58,084	24,223	7,674	18,395	4,872	5,163	2,861	121,272
Total—7 Mos. 1950	390,455	167,746	55,770	119,540	29,304	26,526	18,157	807,498
Total—7 Mos. 1949	310,992	195,352	54,477	108,176	19,266	13,600	9,800	711,663

* Automobile Manufacturers Association.

1950 Truck Trailer Shipments*

	July	Seven Months
Vans		
Insulated and refrigerated	332	2,048
All other closed top	3,031	15,014
Open-top	288	2,049
Total—Vans	3,651	19,111
Platforms		
With cattle and stake racks	151	790
With grain bodies	61	333
All other	828	4,511
Total—Platforms	1,040	5,634
Tanks		
Petroleum	245	.....
All other	11	.....
Total—Tanks	256	1,901
Pole and logging		
Single axle	108	679
Tandem axle	149	579
Total	257	1,258
Low-bed heavy haulers	138	968
Dump trailers	86	435
All other trailers	225	1,540
Total—Trailers	5,653	30,847
Trailer chassis	193	1,269
Total—Trailers and chassis	5,846	32,116

* Industry Division, Bureau of the Census.

Budd VP Resigns

Warren H. Farr, vice-president in charge of manufacturing of The Budd Co. for the past four years and one of the pioneer production men in the automotive industry, will resign effective January 1st. He will continue as a member of Budd's Board of Directors, however, and will act as a consultant to Mr. Budd.

G. H. Scragg Opens New Offices

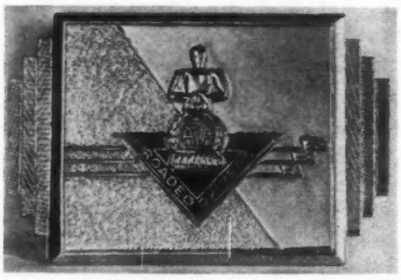
George H. Scragg, who resigned as Director of Advertising & Sales Promotion of The White Motor Co. the first of the year to open his own sales promotion service business, has just opened new and larger offices at 743 East 82nd St., Cleveland, Ohio.

Burndy Receives Ad Award

For the second time within a few months, Burndy Engineering Co., N. Y., has won a top award in advertising. The latest is the "Best of Industry" award in the Direct Mail Advertisers Association annual competition, the Industrial Machinery and Tools —Accessory Equipment classification.

Just recently the company was awarded first place for electrical machinery, equipment and supplies advertising by the National Industrial Advertisers Assn. at its 1950 conference.

Drivers' Belt Buckles



Members of ATA Roadeo Drivers, a newly formed honorary organization for drivers who have competed in official state divisions of ATA's National Truck Roadeo, will be awarded this attractive belt buckle. In addition to the buckle each driver will carry a membership card and will receive regularly literature relating to trucking and overall safety activities

Egypt Buys FWD's

Four Wheel Drive Auto Co. announced the receipt of an order for 619 standard FWD trucks from the Egyptian Ministry of War and Marine.

The LD model represents the bulk of the order of 479 trucks, rated at 14,500 lbs. gvw. The remainder of the order consists of 126 HAs of 17,000 lbs. gvw; 12 Model H6x6 six wheel drive trucks of 30,000 lbs. gvw and two Model MU6x6 of 45,000 lbs. gvw.

Anti-Freeze Shortage Seen

Although more non-evaporating anti-freeze will be produced this year than in any previous year, insufficient quantities in some cold weather areas this fall were forecast today by National Carbon Div., Union Carbide and Carbon Corp. The company stated that the price of $3.50 per gal. in effect since 1948 for "Prestone" will not be increased this season. The reason for the supply situation, according to the company, is greater demand from the increasing number of motor vehicles in operation and additional demand from "off the road" uses such as earthmoving equipment, tractors, diesel locomotives, etc., and possible increases in military requirements.

Lights Increase Work Rate

Night-work lighting systems direct-mounted on construction equipment permits night operations at 85 per cent of daytime rate. Army Corps of Engineers experiments with standard commercial and military components show installation costs from $5 to $300 per vehicle, with $200 average. Advantages over floodlighting: high intensity illumination; higher flexibility in light adjustment and individual vehicle operation; elimination of shadows and heavy, fixed lighting facilities.

Care Will Save Your Car

The Automotive Advertisers Council, which last year introduced the slogan, "Get It From Your Jobber" has embarked on a second phase designed to boost business of the automotive after-market trade. The new slogan is "Care Will Save Your Car." Although intended primarily for the retail market, it is a slogan equally adaptable to trucks and buses, particularly in the present state of emergency.

Willys Gets Army Order

Willys-Overland Motors, Inc., announced receipt of the "largest Jeep order from Army Ordnance since October, 1944, at the height of World War II producton."

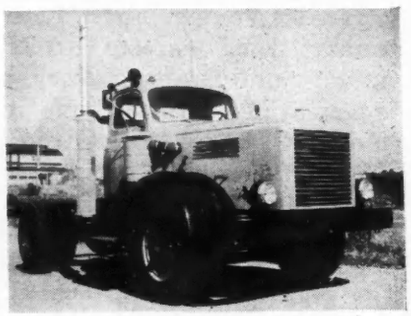
This, combined with an order also received from ECA for civilian model Jeeps, brings the company's total unfilled orders to more than $120,000,000. The backlog figure includes civilian Jeeps, trucks and passenger cars, engines and miscellaneous parts.

Pyrene Starts Service System

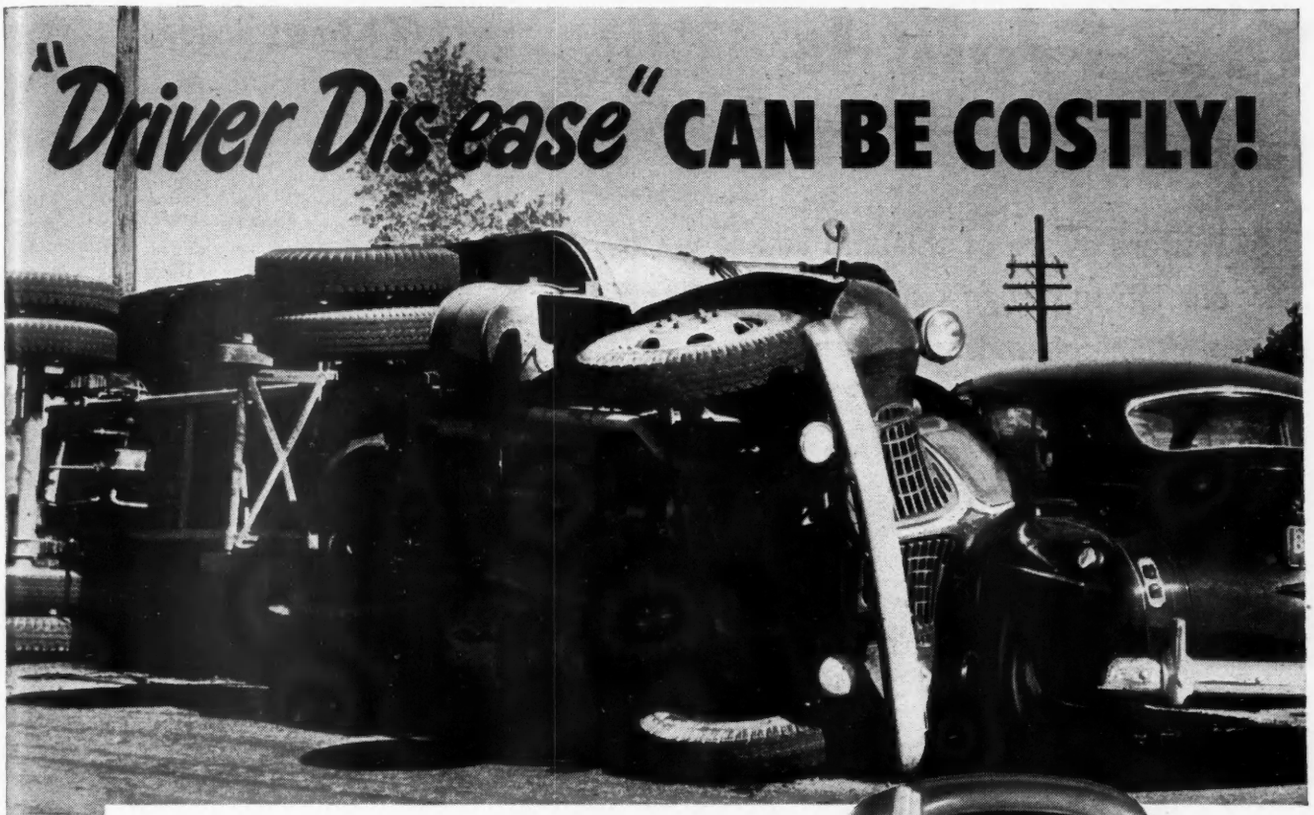
Organization of a nation-wide system of service depots has been completed by the Pyrene Mfg. Co., of Newark, N. J., 180 depots in key cities have been set up throughout the country. The services offered include immediate exchanges, replacement parts, repairs and trade-ins on fire extinguishers and other fire fighting equipment.

(TURN TO PAGE 348, PLEASE)

I-H Offers New Diesel



The LD-305 Roadliner model is one of a new line of heavy-duty, diesel-powered trucks introduced by the motor truck division of International Harvester Co. The new line (see P. 162, October CCJ), including both four and six-wheel vehicles has gcw range up to 76,800 lb. The line includes a wide variety of custom-made models available in the LD-304 Loadstar and the LD-305 Roadliner series



MONROE E-Z Ride* Truck Seats Keep Operators Fit and Alert

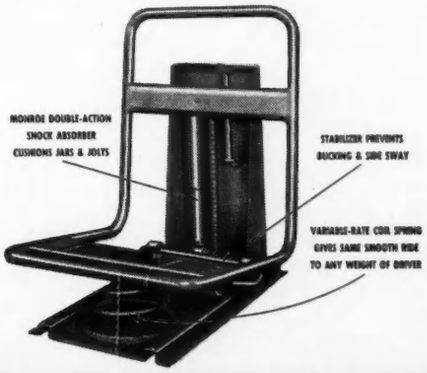
A worn-out truck driver is a bad safety risk. According to a reliable survey, 1 driver in 3 who had an accident caused by falling asleep was a truck driver.

Truck accidents are plenty costly in cargo and vehicle loss. Expensive lawsuits often result. And you, Mr. Fleet Owner, are the loser!

Monroe E-Z Ride Truck Seats keep your drivers feeling more fit—alert against accident dangers. Fatiguing, back-busting jolts are cushioned by a Monroe Double-Action Shock Absorber, plus a variable-rate coil spring that gives any weight of driver the same smooth ride.

For increased safety and efficiency, Monroe E-Z Ride Truck Seats are a sound investment for any fleet owner—for you.

**Reg. U. S. Pat. Off.*



MONROE®

When shock absorbers on your cars and trucks need replacing, always specify Monroe Airplane-Type Shock Absorbers—the choice of leading automotive engineers.

MONROE AUTO EQUIPMENT CO.

Monroe, Mich. – World's Largest Maker Of Ride Control Products

Your Profit is measured in pounds

You are aware of this and so are we. It is our job to design our tandem to save you profitable pounds.

FOR EXAMPLE:

The Hendrickson Tandem basic design eliminates oversize springs, which *add excessive weight.*

Hendrickson equalizing beam and ball-and-socket construction

—reduces the shock and strain of each road bump or road irregularity 50% before it can reach the spring.

—keeps the axles in perfect alignment to each other and with the frame—no distortion to be carried by the springs.

—provides absolute equal distribution of weight between axles—leaving the springs free of this corrective duty.

Follow the Leader!
HENDRICKSON TANDEM

The Hendrickson Tandem Design *will* save you profitable pounds!

HENDRICKSON MOTOR TRUCK COMPANY

8001 West 47th Street • Lyons (Chicago Suburb) Illinois

CCJ News Reports

Continued from Page 346

McCabe Powers Adds New Body

Powers-American Div. of McCabe Powers Auto Body Co. has added a new transit-maintenance body to its line of public utility bodies and equipment. Arranged to permit comfortable transit for four men, in addition to those in the truck cab, this unit also provides compartment tool storage space.

The compartments may be equipped with shelves, trays, and bins and body roof may be fitted with hand rails and hold-down straps or can be equipped with ladder racks and material brackets. Inside seating arrangement can be altered.

Shops Receive Awards

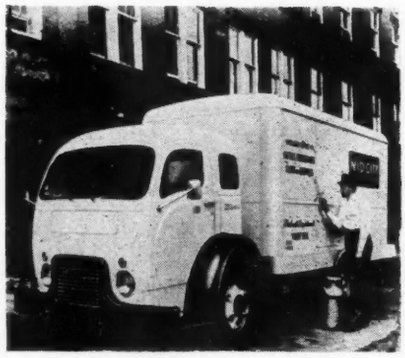
Winners of the 1950 Transport Topics Truck Shop Excellence Awards received pennants presented by Hoy Stevens at ATA annual convention. The five carriers taking top honors were: Pacific Intermountain Express, Oakland, Cal.; St. Johnsbury Trucking Co., St. Johnsbury, Vt.; Meadows Transfer Co., Des Moines, Iowa; Atlantic Refining Co., Philadelphia, Pa.; Alton Box Board Co., Alton, Ill.

Lumber Packaging Saves $

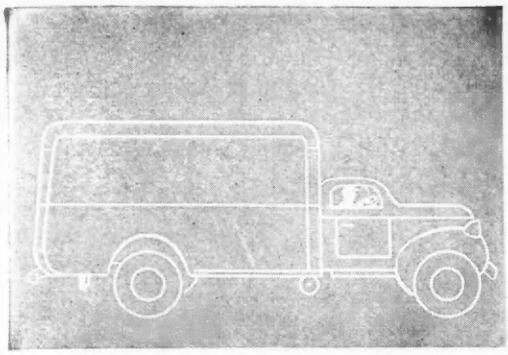
Bundling lumber together only in like lengths and widths saves up to $7 per thousand board ft. in loading, unloading, handling and storing, according to the Naval Supply Center, Oakland, Cal., which adopted the method from an employee's suggestion. Bundling requires additional work, but ease in handling more than compensates for the cost. Bundles up to 14 ft. long carry 2 straps, those 22 ft. and over carry 4. Spacers used are 4 in. thick.

(TURN TO PAGE 350, PLEASE)

White 3014 Light



Lighter than the "3000" Series models, this White "3014" model now in production was designed for delivery duty. Incorporating the power-lift cab, these models also feature a low bed frame to achieve a minimum of reaching and lifting during loading or unloading. Frame height at centerline of rear axle is 21⅞ in. on 99-in. wheelbase model, loaded. Shorter wheelbases and wider tread front axles aid maneuverability



trucks are
made for delivering,
but...

pf decals

Put attention-getting PF decals on your trucks and watch them SELL as they GO—delivering a brand name impact with every delivery!

Comparative space on billboards or public transit vehicles costs thousands of dollars, but space on your trucks is FREE! Use it profitably... with solid selling PF decals. They're economical, easy to apply—your trucks are never out of service.

Manufacturer's Agents and Representatives: Write for information on territories now open!

Address Dept. CCJ, 220 West 42 St., N. Y. 18, N. Y.

truck decals make your trucks SELL as well as DELIVER!

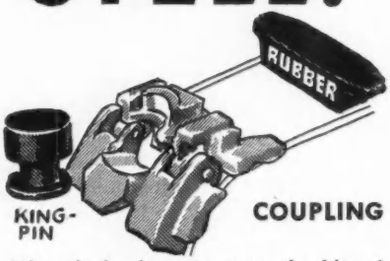
FREE ART AND COLOR TESTING!

See how PF decals can convert your trucks into rolling billboards! Write today for the 16-page booklet, DECAL-WAYS TO SALES, plus samples of PF DECALS.

PALM, FECHTELER & CO.

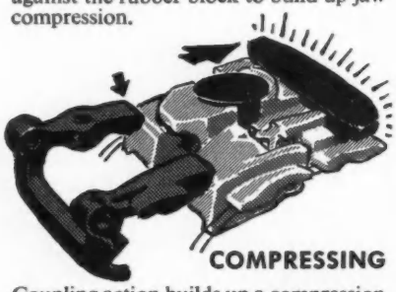
NEW YORK · E. LIVERPOOL, OHIO · CHICAGO

Rubber
INSURES A GRIP OF
STEEL!



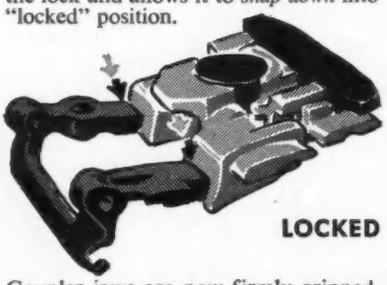
COUPLING

King-pin is about to enter the hinged jaws which, in turn, are *forced back* against the rubber block to build up jaw compression.



COMPRESSING

Coupling action builds up a compression of 3000 pounds before rear jaw clears the lock and allows it to *snap down* into "locked" position.



LOCKED

Coupler jaws are now firmly gripped, under compression—an *exclusive* ASF feature. Compression coupling eliminates slack; reduces 5th wheel *and* king-pin maintenance to a minimum.

Write for Folder!

AMERICAN STEEL FOUNDRIES
Automotive Division
400 N. MICHIGAN AVE., CHICAGO 11, ILL.

A·S·F Safety COUPLERS

FOR TRACTOR-TRAILER SERVICE

CCJ News Reports

Continued from Page 348

James Speaks To NDTA

The Fifth Annual Convention of the National Defense Transportation Assn. was told by Leland James, President of American Trucking Associations, Inc., and also President of Consolidated Freightways, Inc., Portland, Ore., that America's highways and motor vehicles may be the salvation of millions of people and of victory if a third world war comes.

Preparedness of the highway transportation industry and its facilities for wartime utility, he said, called for allocations of the bulk of highway use taxes and federal appropriations to the building and maintaining primarily of the inter-regional and urban-access highways on a basis of preference for avenues most essential for war traffic.

He proposed also, amendment of some state laws to permit more flexible use of equipment; the movement by truck of a "steadily increasing amount" of war materials to develop further this medium of transportation; and granting of trucking industry priorities to assure ample equipment, supplies, and personnel.

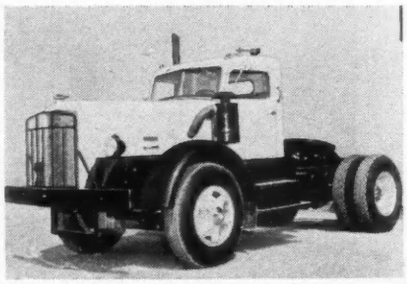
INDUSTRIAL NOTES

Cummins Engine Co., Inc., of Columbus, Ind., announced construction of a new building, 200 ft. wide and 460 ft. long, which will begin immediately, making available 2.1 acres of land under one roof and adding 92,000 sq. ft. of floor space to the factory facilities.

Assignment of the Detroit distributorship, embracing 63 counties in Michigan, to Becker Motors, Inc., with offices in Detroit, has been announced by **Willys-Overland Motors, Inc.**

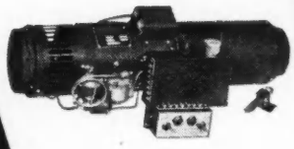
The appointment of **Remonts Corp.**, 372 Broadway, New York 13, N. Y., as sole export representatives and distributors of the Ampco Vapor Lubricator, has been announced by **Automotive & Marine Products Corp.**, Boston, Mass.

Ward LaFrance Lightens Tractor



This light-weight Ward LaFrance Truck Corp.'s "W" Series Tractor features a short wheelbase of only 144-72 in. CA. It has front mounted steering gear and long, flexible front springs. Available with either gasoline or diesel engines up to 200 hp, the unit uses transmission and axle combinations to meet any particular specified gross weight requirements

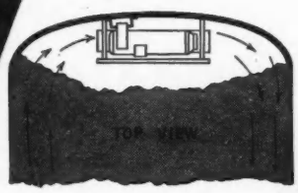
Hunter GASOLINE HEATERS



MODEL UH510
Underwriters Approved

Heat For Every Transport Need, Independent of Vehicle Engine

• This gasoline-burning truck and cargo heater is the answer to practical, efficient, low-cost transport heating. Only 6" in diameter, 28" long, it delivers 25,000 BTU per hour, 150 cfm of air, under thermostat control, averages less than one quart of fuel consumption per hour.



ONE TYPE OF TRAILER INSTALLATION

Easily installed in delivery trucks, walk-ins, cargo trailers, utility bodies, on floor or wall, under shelf, rack or seat. Other Hunter models available for special applications.

Write for complete information, folders, prices on all models.

(Some distributor and dealer territories are still available)

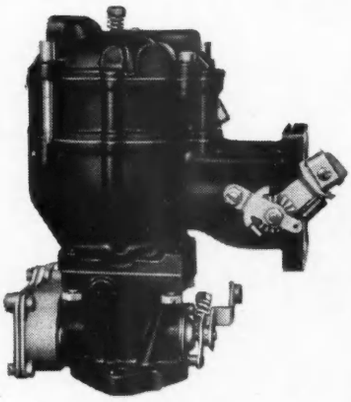
TRANSPORT HEATING & REFRIGERATION
• CAB HEATERS • TRAILER HEATERS
• CARGO HEATERS • CARGO COOLERS

Hunter MANUFACTURING CO.
1550 E. 17th St., Cleveland 14, Ohio

Does Your Truck Have Sales Appeal?

IT ALL DEPENDS ON PERFORMANCE and PERFORMANCE DEPENDS ON

Zenith
CARBURETORS



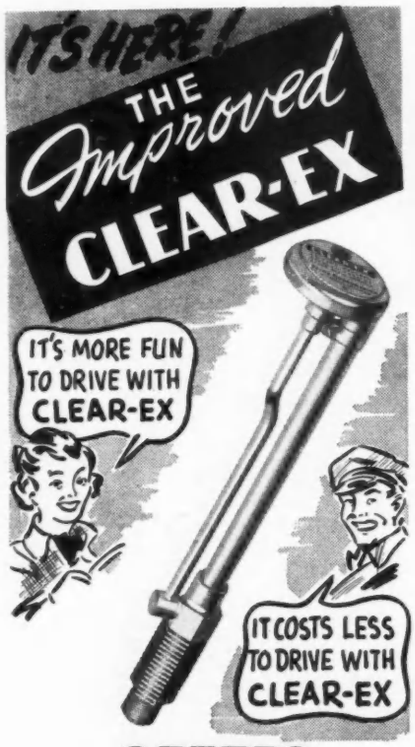
In the practical field of commercial transportation, product preference is determined solely on performance. Nothing contributes more to the achievement of this desirable end than efficient carburetion. You can be sure that manufacturers whose vehicles are equipped with Zenith, the leader in the field of heavy duty carburetion, have measured carburetion costs in lasting terms rather than initial expense. Zenith's rugged construction, strong idling, freedom from stalling and response to every power demand gives any commercial vehicle added sales appeal. It pays to specify Zenith — the engineers' choice for trouble-free operation.

ZENITH CARBURETOR DIVISION OF

696 Hart Avenue · Detroit 14, Michigan

Bendix AVIATION CORPORATION

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y.



BETTER ENGINE PERFORMANCE for Cars, Trucks, Buses!

CLEAR-EX INJECTS AIR into the engine *via the exhaust manifold!* This means that harmful, carbon-laden gases in the cylinders are greatly diluted with fresh air . . . resulting in a "liver" charge of fuel. Cooling action of CLEAR-EX condenses corrosive, super-heated steam into water, controls engine ping. Injection of fresh air, plus cooling action, means a CLEANER engine . . . it means less carbon, cleaner spark plugs, fewer valve and ring jobs, fewer and simpler tune-ups! CLEAR-EX achieves and *maintains* better compression ratios for improved efficiency and performance!

CLEAR-EX IS EASY TO INSTALL . . . the average installation time is only 15 minutes! Simply saw and tap a hole into the exhaust manifold . . . thread in CLEAR-EX. Units come with complete, easy-to-read instructions. Absolutely no adjustments are required!

A FIELD-TESTED ACCESSORY . . . Thousands of CLEAR-EX's are now in use on private cars, trucks, buses. Entire fleets, both municipal and private, are CLEAR-EX equipped on the basis of proved performance! CLEAR-EX is here to stay . . . a "must" for better, cheaper automobile operation!

Mfd. by
FLINT CORPORATION
Automotive and Industrial products

MAIL THIS COUPON TODAY

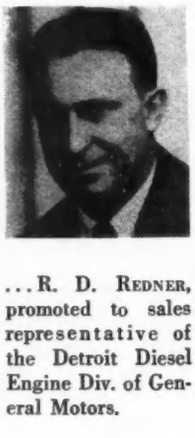
FLINT CORPORATION Dept. C11
1310 West Clybourn • Milwaukee, Wisconsin
Please rush me information on CLEAR-EX, with prices.
NAME .....
ADDRESS .....
CITY..... ZONE.... STATE.....

Introducing . . .

. . . KARL A. ROESCH, appointed assistant wholesale manager of The White Motor Co.'s national sales staff.

. . . A. R. KELSO, elected vice president of Mack Trucks, Inc. At the same time Mr. Kelso was named vice president and a director of Mack Mfg. Corp.

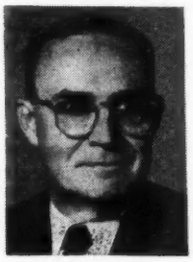
. . . STEPHEN S. CONWAY, vice president in charge of sales of Brake Shoe and Castings and Southern Wheel Div. of American Brake Shoe Co.



. . . WYMAN L. HENRY, named sales manager of the "3000" Div., of The White Motor Co.

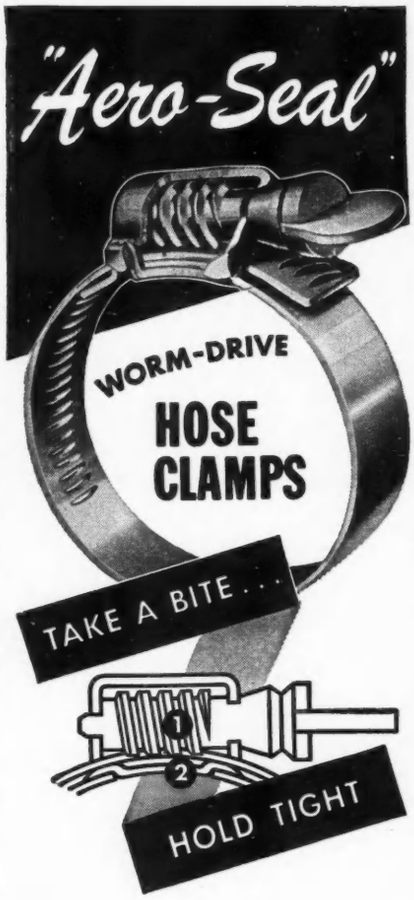
. . . R. D. REDNER, promoted to sales representative of the Detroit Diesel Engine Div. of General Motors.

. . . GEORGE S. LAMSON, manager of the automotive replacement division of the Thermoid Co., elected vice-president of the company at a recent meeting of the board of directors.



. . . C. A. KIEFER, now associated with Eaton Mfg. Co.'s Axle Div. Mr. Kiefer's present assignment is customer. contact.

(TURN TO PAGE 354, PLEASE)



❶ At least 3 hardened steel threads always engaged in worm drive action in slotted band.
Clamp unscrews easily but will never work loose.

❷ Worm threads cannot touch or damage hose—curved saddle assures uniform sealing pressure around complete circumference.

- Long Life — use again and again
- Integral construction — no parts to lose
- Stainless steel bands resist corrosion
- Two types—screwdriver slot or thumb grip

WRITE TODAY for FREE SAMPLE

ANOTHER BREEZE MARK PRODUCT

"Aero-Seal"®
HOSE CLAMPS

BREEZE CORPORATIONS, INC.
45 South Sixth Street, Newark, N. J.

"We are all 100% TACHOGRAPH Drivers NOW!

"They Keep Our Rigs Out of the Shop Longer and They Lower Maintenance Costs"

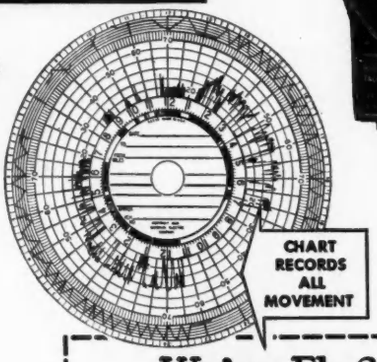
Here's what Paul H. Mosher, driver for John W. Doudell, Common & Contract Haulers has to say about Tachographs:

"Our boss installed Tachographs on twenty Cummings diesel-powered Peterbilt Tankers a year ago. Our first charts looked mighty rough. A year has passed and our charts look mighty good now. Tachographs have made smoother, safer, more efficient drivers out of all of us. We are all 100% Tachograph drivers now and the improvement in our driving has kept our rigs out of the shop longer, and has paid off to the boss in lower maintenance costs and fewer breakdowns, and has helped us in earning more driving hours per week."

You, too, can cut maintenance costs and make satisfied, safer drivers by installing Tachographs on the vehicles in your fleet. Tachographs mount on the dash of the vehicle. Paper charts placed in the instrument give a complete record of each trip.

Chart Records All Movements

- WHEN ENGINE STARTED
- HOW LONG ENGINE IDLED
- WHEN VEHICLE WAS IN MOTION
- HOW FAST IT TRAVELED
- WHEN VEHICLE STOPPED
- DISTANCE TRAVELED BETWEEN STOPS



SEND FOR BULLETIN

Bulletin SU-3B contains valuable information and tells how savings and economies result when Tachographs are installed. Mail coupon for your copy.

DISTRIBUTED BY **Wagner Electric Corporation**

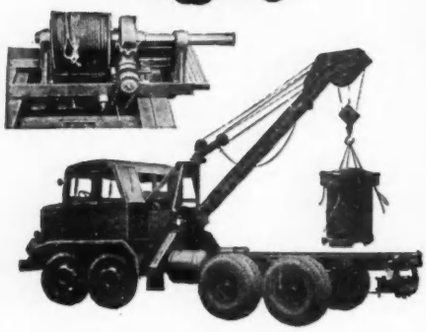
Wagner Electric Corporation
6476 PLYMOUTH AVE., ST. LOUIS 14, MO.
Please send a copy of Bulletin SU-3B.

Name and Position _____
Company _____
Address _____
City _____ State _____
We operate _____ Vehicles
(NUMBER)

SU-7

Industry Has Specified
SILENT HOIST Equipment
• Since 1918 •

KRANE KAR Swing Boom Mobile Crane: for materials-handling . . . lifting, transporting, positioning, gasoline or Diesel, 1½, 2½, 5 and 10 ton capacities, 9 to 37 ft. booms (or telescopic booms), solid or pneumatic tires. Self-stabilizing without jacks or outriggers; unobstructed vision; fast, flexible, safe, easy to operate.



WINCHES: Capstans; Single and Double Drum, Jaw Clutch, Keyed and Friction Clutch Winches. 2,000 to 50,000 lb. Capacities.

SWING BOOM CRANES: Truck: Motor Power Operated; high capacity; takes up only a small space. For handling transformers, cable reels, lamp posts, trees, poles, manhole castings, etc. 9 to 31 ft. booms; one to 10 ton capacities.

TOWERS: 2 or 3 section type and Pantograph types, with plain, revolving or racking platforms.

TRIPOD POLE DERRICKS: for 35 ft., 45 ft., and 60 ft. Poles; single piece or telescopic side legs; removable cast steel fittings.

USERS: AT&T; N. Y. Tel. Co.; T.V.A.; Consolidated Edison Co.; W.U.; Municipalities throughout America.

WRITE FOR CATALOGS:
No. 79—KRANE KAR *No. 70—Truck Equipment*

THE ORIGINAL SWING BOOM MOBILE CRANE WITH FRONT-WHEEL DRIVE AND REAR-WHEEL STEER
2½, 5, AND 10 TON CAPACITIES
KRANE KAR
TRADE MARK REGISTERED
SILENT HOIST & CRANE CO.
852 63rd ST., BROOKLYN 20, NEW YORK

Introducing . . .

Continued from Page 352

. . . Burton C. Sears, right, assistant regional manager for the southeastern region, with headquarters in Atlanta, Ga., for the Cummins Engine Co.

. . . Donald B. Olen, works manager of The Four Wheel Drive Auto Co.

. . . W. G. MacMann, appointed field sales manager of the Automotive Div. of Tincher Products Co., which was recently purchased by Ideal Industries, Inc., of Sycamore, Ill.

. . . S. S. Stewart, named vice president in charge of purchasing for Mack Mfg. Corp.

. . . Fred P. Biggs, appointed president of the Brake Shoe and Castings Div., of the Brake Shoe and Castings and Southern Wheel Div.

. . . A. D. (Andy) Hodge, sales manager of The Weatherhead Co.'s newly formed Industrial Sales Div.

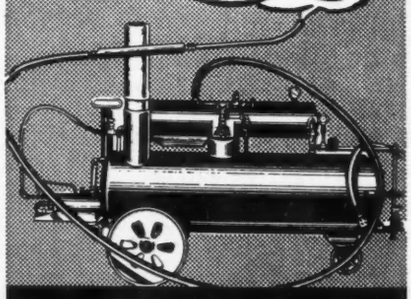
. . . Edward Daley, assistant regional manager for the Cummins Engine Co., with headquarters in Los Angeles, Cal.

SAVE MONEY ON REPAIR WORK WITH A SIEBRING PORTABLE STEAM CLEANER

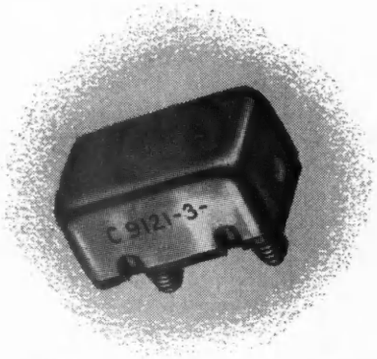
- Cuts Cleaning Time in Half
- Speeds All Repair Work
- Safe
- Economical
- Easy to Operate

Provides instant steam, hot water or both. Combines powerful cutting chemicals and pressure to knock grease and grime from motors in a hurry. Try it at OUR RISK. Write for 10-day FREE TRIAL.

$350.00



Siebring
MANUFACTURING COMPANY
182 Main Street, George, Iowa



Looking for ways

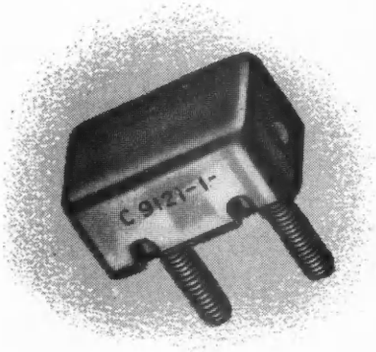
to Simplify Your Electrical Circuit Protection?

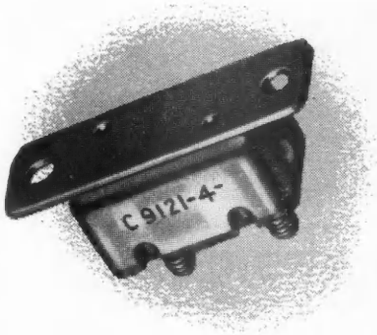
USE

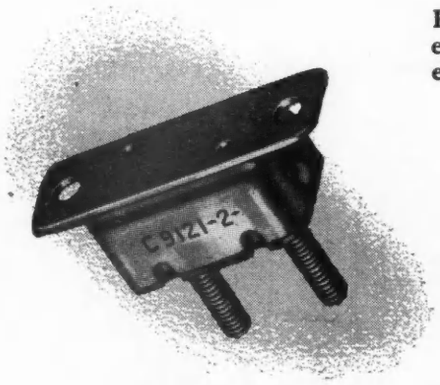
KLIXON

Automotive

CIRCUIT BREAKERS





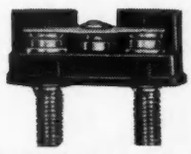


If you want to simplify your circuit protection designs . . . save time . . . and reduce costs, then it will pay you to investigate the outstanding advantages of the Universal Klixon C-9121 Circuit Breaker . . .

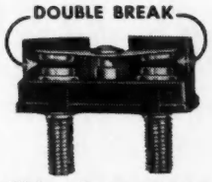
1. *Standardization* . . . one circuit breaker, applicable to all 6 and 12 volt circuits, reduces inventories, avoids possible errors and mixups.
2. *Double* Break *Construction* . . . positive circuit protection for life of vehicle is assured with the double break contacts.
3. *Permanent Protection* . . . practically foolproof, Klixon C-9121 breakers are unaffected by motion or shocks, vibration or harmless transient shorts.
4. *Metal Enclosures* . . . completely enclosed, except for terminals, provides protection against weather conditions, dirt and other foreign material.

Protect all electrical circuits with Klixon C-9121 Circuit Breakers. Use them on trucks, buses, cars, trailers and other mobile equipment. Write for information and samples.

HOW IT WORKS



Breaker remains closed and maintains circuit on normal load.



Click . . . It opens on overload, preventing damage to circuits and equipment.

KLIXON

TRADE MARK REG. U. S. PAT. OFF.

SPENCER THERMOSTAT

Division of Metals & Controls Corporation

1611 FOREST STREET, ATTLEBORO, MASS.

National Safety Congress Emphasizes Driver Attitudes

WHAT can the management of a motor fleet do, in a practical way, to develop among its drivers the type of "safety attitude" that will be most favorable to the further reduction of highway accidents?

This central theme gave unity to the six crowded sessions of the Commercial Vehicle Section of the 38th Annual Safety Congress, Oct. 14 to 17, at the LaSalle Hotel in Chicago.

At the first session, Thomas H. MacDonald, U. S. Commissioner of Public Roads, stressed the importance of the problem through reminding the delegates from all states that during the past ten years traffic on our national highways has had more than doubled, but that during this same period the needed national road construction had fallen far short. "Your trucks have been tearing up our roads faster than they are being rebuilt—but of course it is true that some of these highways ought to be torn up. . . . It is the business of our Department to provide roads sufficient for the traffic, and your business to observe legal restrictions—hence we have a partnership of mutual interests."

A. A. Canfield, of the Psychology Dept. of Northwestern Univ., soon had dropped in the specific driver angle by talking on the question, "Can We Determine the Potential Accident Repeater by Testing?" Briefly, he answered both "yes" and "no." Tests can spot some of them, but not all. These tests may be by paper-and-pencil; through use of dummy equipment; or in driving work samples.

(TURN TO PAGE 358, PLEASE)

All of these shares having been sold, this advertisement appears as a matter of record only.

248,000 SHARES

INTERSTATE MOTOR FREIGHT SYSTEM
(A Michigan Corporation)

COMMON STOCK
($1 Par Value)

PRICE $11.75 PER SHARE

SHIELDS & COMPANY

October 3, 1950

$100 REWARD
to any Fleet Operator who is getting genuine W. G. B. OIL CLAROFICATION without the use of genuine W. G. B. CARTRIDGES

REMEMBER THIS CLUE: You can get genuine W. G. B. OIL CLAROFICATION only when you use genuine W. G. B. CARTRIDGES.

Write for name of nearest W. G. B. Representative

W. G. B. OIL CLARIFIER, INC.
KINGSTON, NEW YORK

Buy Bonds

BURNDY HYSPARK

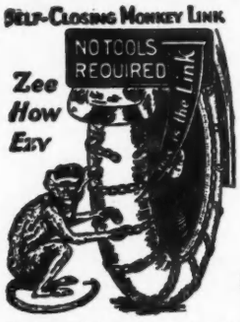
The ignition terminal that fits ALL spark plugs.

for information write:
BURNDY, New York 54

FOR ENGINE BEARINGS
CLUTCH PLATES AND PARTS
CHASSIS PARTS

Monmouth TRADE MARK *is the name*

SELF-CLOSING MONKEY LINK



MONKEY LINKS

Fit all types of Tire Chains. Made in 5 sizes.

Order them today.

FLOWER CITY SPECIALTY CO.
Rochester, N. Y.

Trade Mark Reg. U. S. Pat. Office

INCREASE YOUR PAYLOAD

BETTER RIDE, EASIER HANDLING

BETTER WEIGHT DISTRIBUTION

LESS TIRE WEAR, NO SCUFFING

BETTER TRACTION

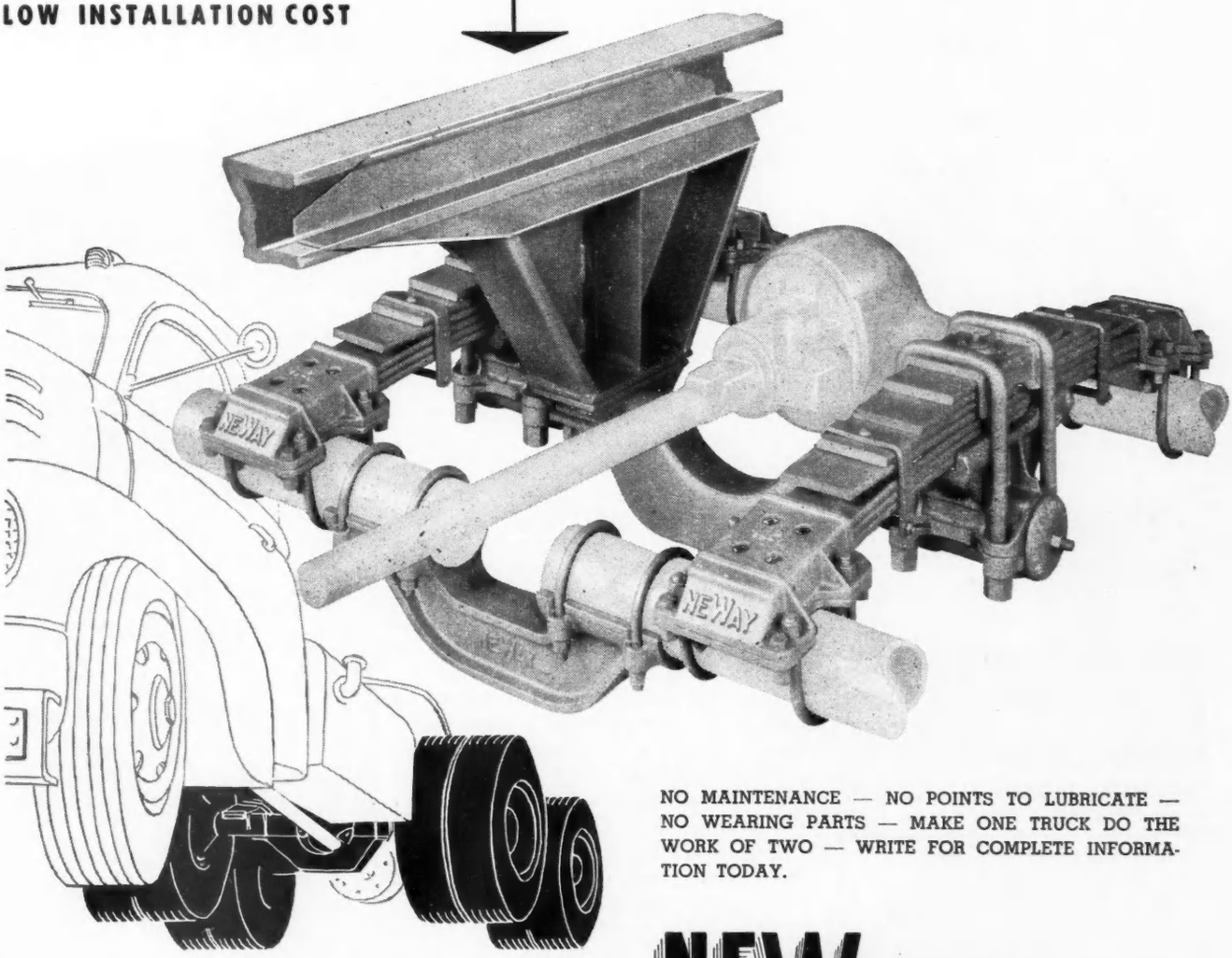
MORE POWER

LOW INSTALLATION COST

no maintenance with the NEWAY *THIRD AXLE* PUSHER

FOR TRUCKS AND TRACTORS

The NEWAY PUSHER Third Axle is welded in perfect alignment at installation. No wearing parts. It never requires lubrication. There is no maintenance cost to you. It gives you the lowest possible operating cost. These are exclusive features which you get only in the NEWAY PUSHER.



NO MAINTENANCE — NO POINTS TO LUBRICATE — NO WEARING PARTS — MAKE ONE TRUCK DO THE WORK OF TWO — WRITE FOR COMPLETE INFORMATION TODAY.

ALSO FURNISHED AS A CONVENTIONAL TRAILING AXLE

NEWAY Equipment Company

MUSKEGON, MICHIGAN, U. S. A.

ALSO MANUFACTURERS OF TANDEM SUSPENSION AXLES FOR TRAILERS

Snyder SAFETY TANKS HAVE FLEET OWNER ACCEPTANCE . . .

because all Snyder Safety Tanks are designed to stand up under the jolts of heavy loads, high speeds and the shock of the road.

Snyder Tanks embody the famous "Flame Guard" Safety Valve and the new Snyder Fusible Fill Cap.

Saddle Tank Cylinder Tank Tool Box Unit

SNYDER TANK CORPORATION

For catalog and address of your nearest dealer, write: P. O. Box 14, Buffalo 5, New York P. O. Box 2390, Birmingham 1, Ala.

KEN-TOOL *Outstanding Quality!*

UNIVERSAL TRUCK WRENCHES

SUPERIOR QUALITY TOOLS, HOT-FORGED FROM CHROME-NICKLE ALLOY STEEL.

TR-1 "Job Designed" for Ford, Budd and Dodge wheels.

TR-2 "Job Designed" for servicing Chevrolet Dual wheels.

TR-3 "Job Designed" for International, Federal, Studebaker, Diamond T and Mack wheels.

TR-4 Leverage bar with socket for GMC, Reo and Federal wheels.

See Your Local Jobber For Our Complete Line!

Largest Exclusive Manufacturers of Tire and Wheel Changing Tools

The KEN-TOOL Mfg. Co. Akron 5, Ohio

MORE PROTECTION! MORE MILEAGE!

P&P-5084

CLEVELAND CHAIN

THE CLEVELAND CHAIN & MFG. CO.
Cleveland 5, Ohio

HEAVY DUTY
MOTOR TRUCKS
•
GASOLINE ELECTRIC
GENERATING SETS

DUPLEX

TRUCK COMPANY
LANSING, MICHIGAN

National Safety Congress

Continued from Page 356

This practical training angle was further emphasized by two speakers who see the problem from the insurance carrier viewpoint. Russell FitzPatrick, with Highway Insurance Underwriters, Austin, Tex., talked about "Practical Application of Training Methods." He mentioned that in the Southern States he had been seeing "many mechanical testing gadgets gathering dust in corners." But some of the largest of the oil-servicing truck fleets of that area are making outstanding safety records through their described "common-sense methods."

Arthur S. Johnson, Chairman of Engineering Comm., National Assn. of Automotive Insurance Cos., Boston, showed "How Insurance Companies Can Help Management Produce Effective Automotive Safety." He placed chief emphasis on company selection of equipment given to the driver; and said that many highway accidents are a "foregone conclusion," due to company use of "much equipment beyond its design purpose."

The final platform session — held jointly by the Commercial Vehicle Section and the Transit Section—staged a panel discussion on "What Can We Do About Driver Attitudes."

Glen U. Cleeton, consultant with American Transit Assn., and also with the Carnegie Institute of Technology, was discussion leader. He defined "an attitude" as a specific mental set or way of thinking, continuously variable in every individual and especially applicable to present day problems in wages and employment. Thus it becomes the problem of the employer to develop, through his personnel, contacts with his drivers which will result in "attitudes" both acceptable and favorable.

DEVILBISS

Spray-Painting Equipment • Spray Booths • Canopy Exhaust Systems • Exhaust Fans • Air Compressors • Hose and Hose Connections • Oil Guns

Distributors or factory sales and service representatives everywhere

THE DEVILBISS COMPANY
Toledo 1, Ohio

FRINK SNO-PLOWS
REG. U.S. PAT. OFF.

Both "V" TYPE and ONE WAY BLADE TYPE

hand or power hydraulic control

FOR ALL MOTOR TRUCKS FROM 1½ to 10 TONS

FRINK SNO-PLOWS, INC., CLAYTON, 1000 Isl., N.Y.
DAVENPORT-BESLER CORP., DAVENPORT, IOWA
FRINK SNO-PLOWS OF CAN. Ltd., TORONTO, ONT.

Your best source for parts thru depressions and 2 world wars.

Wohlert CORPORATION
LANSING 5, MICHIGAN

NEW FORMS
For Fleet Maintenance

• TIRE CHANGE
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• WALL CHART
• TIME CARDS
• TROUBLE REPORT
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Write for Samples

Fleet Forms P.O. Box 793 Columbus 16, Ohio